AOC Scenario

Phil Smith

Carla Beck

Steve Caisse

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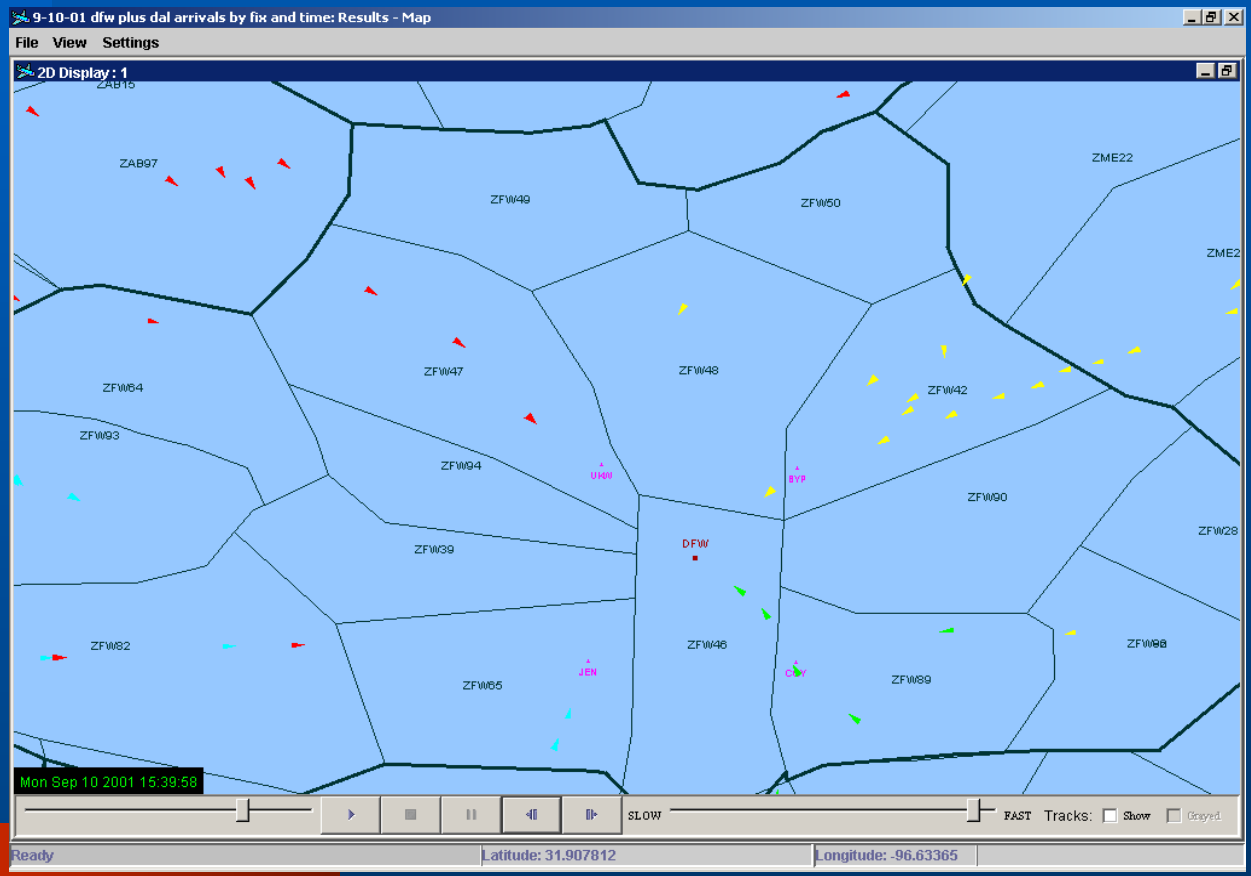
AOC Scenario

Proposed foundation:

- **DFW and DAL arrivals**
- **9/10/01**
- **1530 -1630 Z**

AOC Scenario

Arrivals color-coded by arrival fix
(with ETMS errors in fix determination)


9-10-01 dfw plus dal arrivals by fix and time: Results - Map
File View Settings
2D Display : 1
ZAB97
ZFW49
ZFW50
ZME22
ZME2
ZFW47
ZFW48
ZFW64
ZFW42
ZFW93
ZFW94
UHW
BYP
ZFW90
ZFW28
DFW
ZFW39
ZFW82
ZFW46
ZFW98
ZFW65
JEN
CRY
ZFW89
Mon Sep 10 2001 15:39:58
SLOW
FAST
Tracks:
Show
Ready
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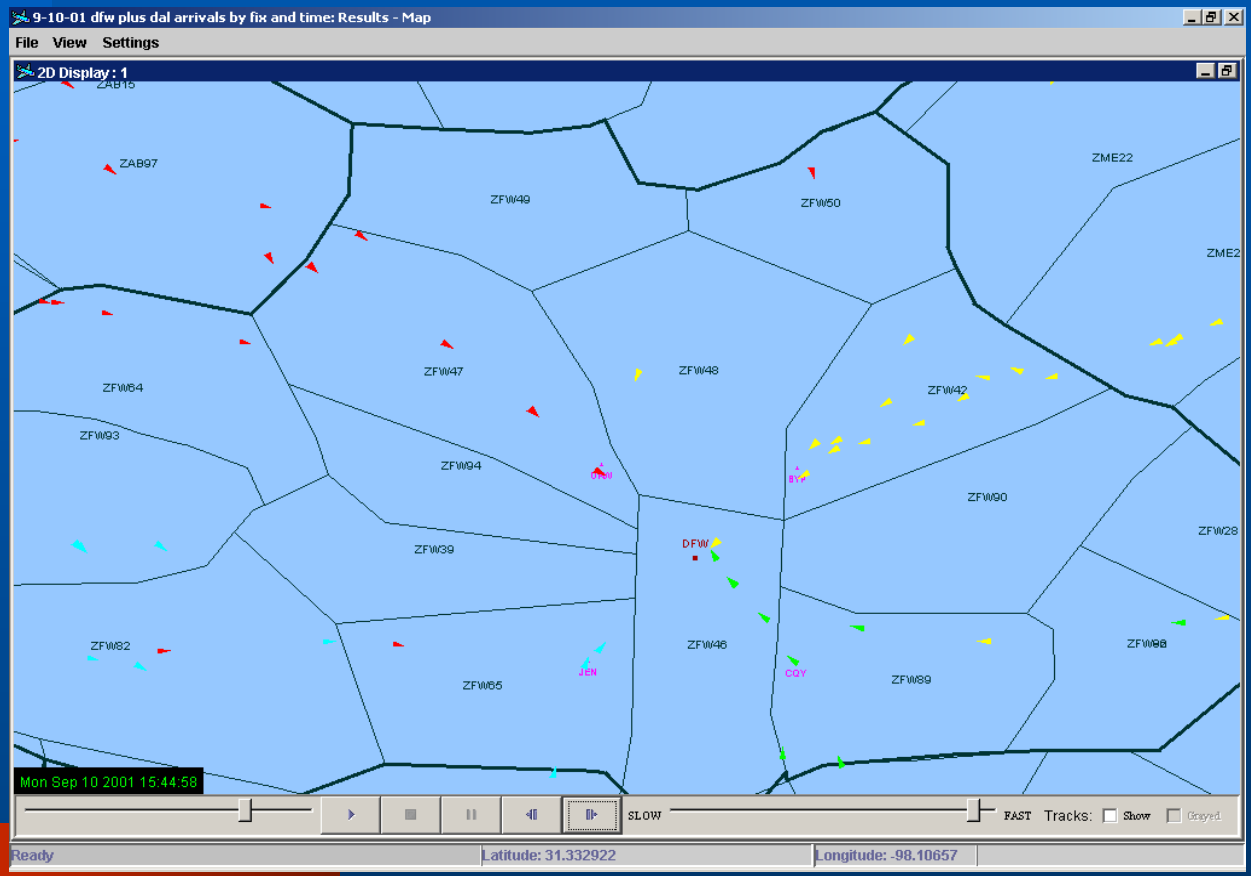
Longitude: -96.63365


9-10-01 dfw plus dal arrivals by fix and time: Results - Map
File View Settings
2D Display : 1
ZAB97
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ZFW28
ZFW39
DFW
ZFW82
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ZFW98
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Mon Sep 10 2001 15:44:58
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FAST
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Ready
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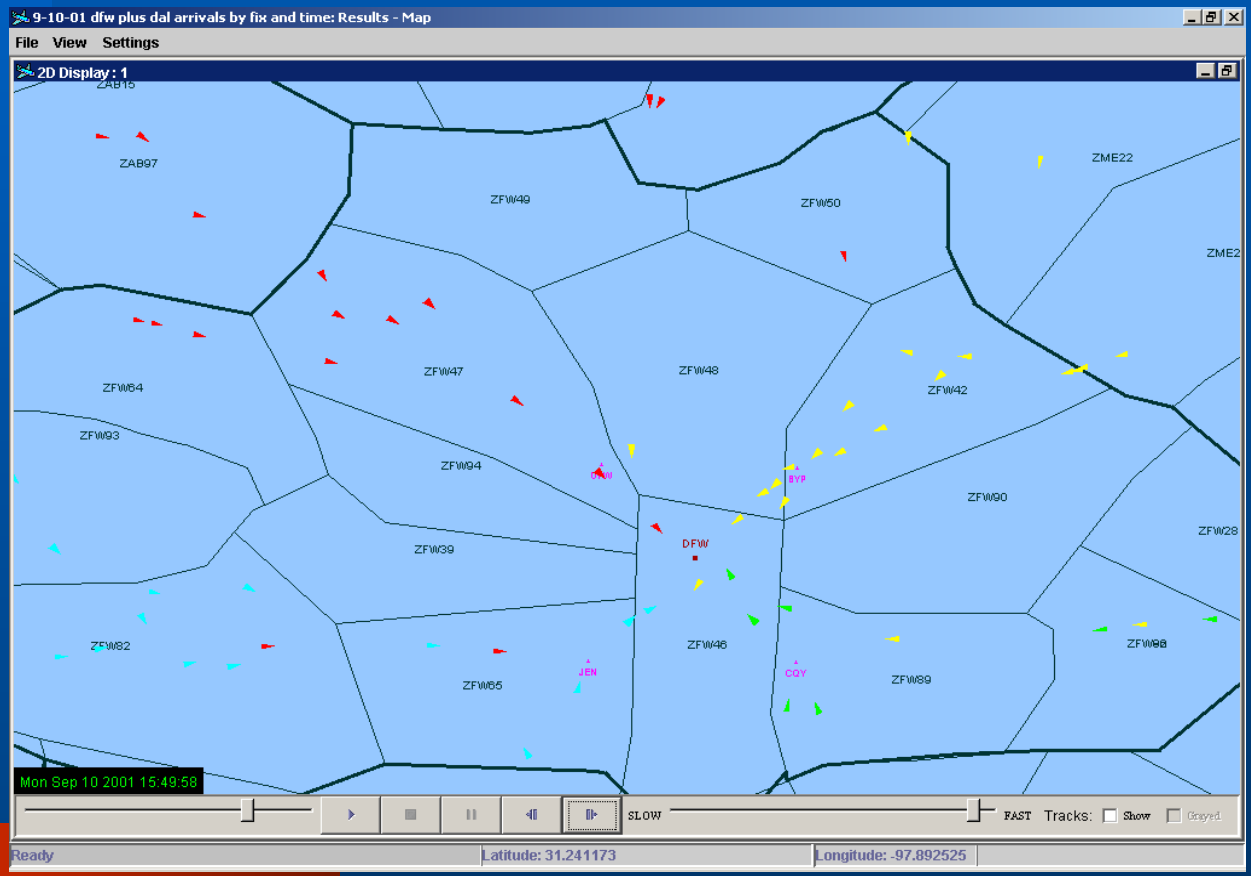
9-10-01 dfw plus dal arrivals by fix and time: Results - Map
File View Settings
2D Display : 1
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ZFW39
ZFW82
ZFW46
ZFW98
ZFW65
JEN
CQY
ZFW89
Mon Sep 10 2001 15:49:58
SLOW
FAST
Tracks:
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Grayed
Ready
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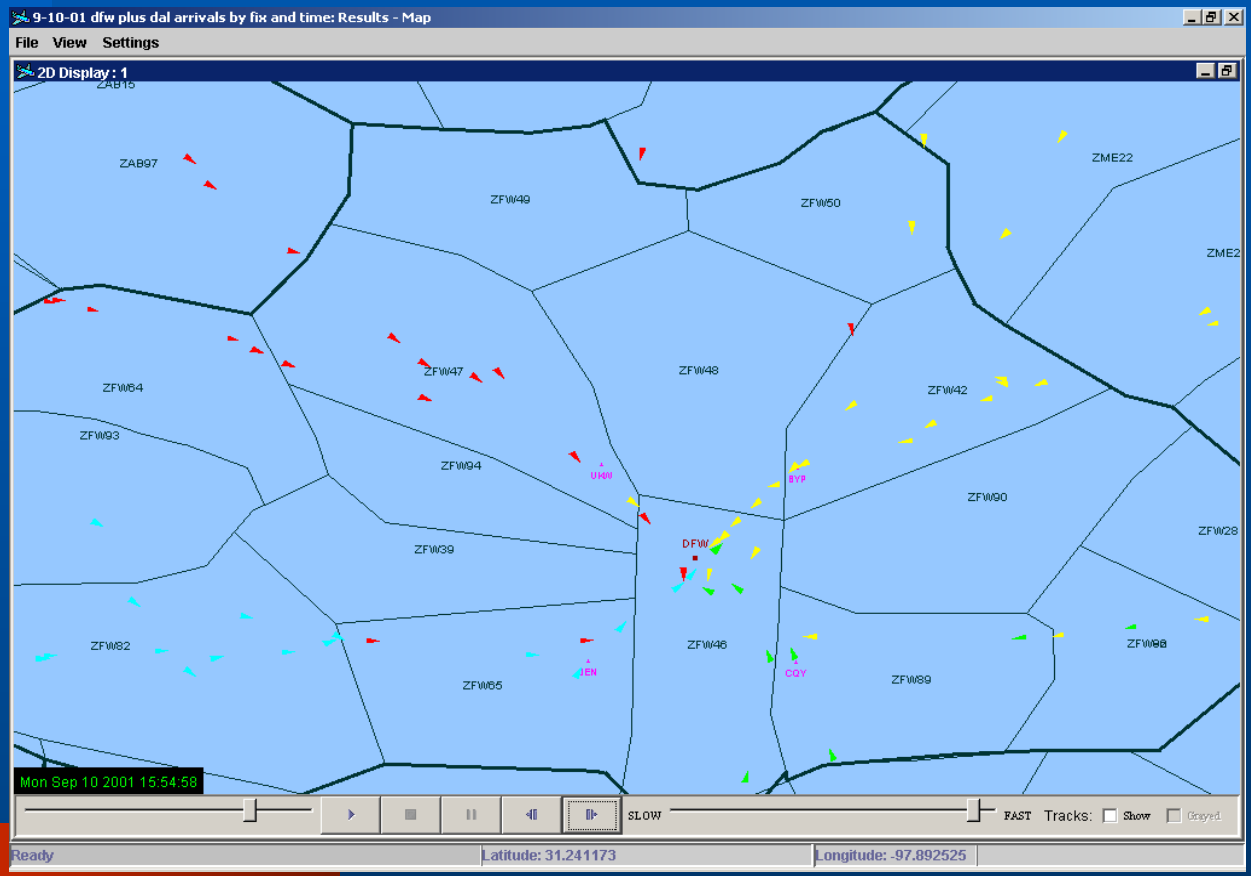
Longitude: -97.892525


9-10-01 dfw plus dal arrivals by fix and time: Results - Map
File View Settings
2D Display : 1
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ZFW39
ZFW82
ZFW46
ZFW98
ZFW65
JEN
CQY
ZFW89
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SLOW
FAST
Tracks:
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Ready
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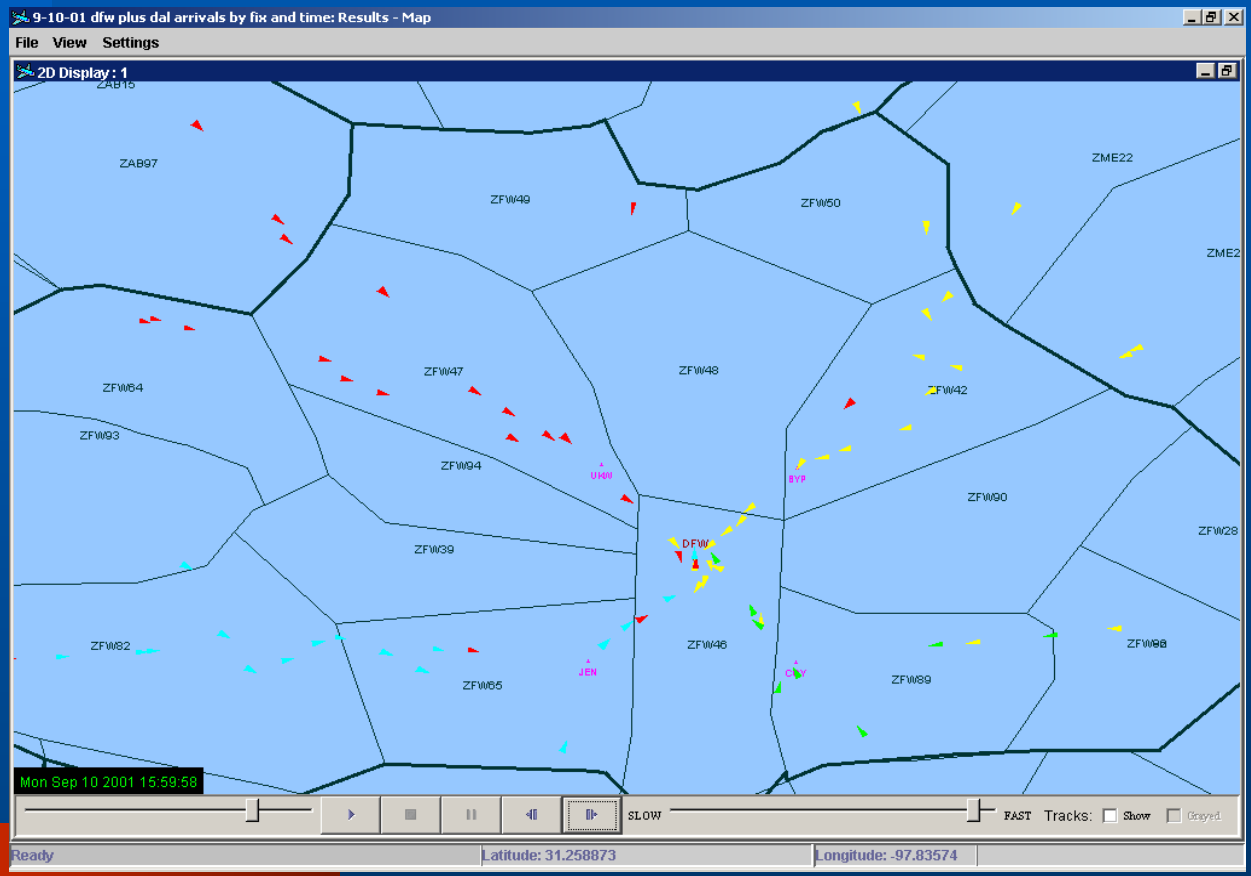
Longitude: -97.892525


9-10-01 dfw plus dal arrivals by fix and time: Results - Map
File View Settings
2D Display : 1
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ZFW94
UHW
BYP
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ZFW28
DFW
ZFW39
ZFW82
ZFW46
ZFW98
ZFW65
JEN
CRY
ZFW89
Mon Sep 10 2001 15:59:58
SLOW
FAST
Tracks:
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Ready
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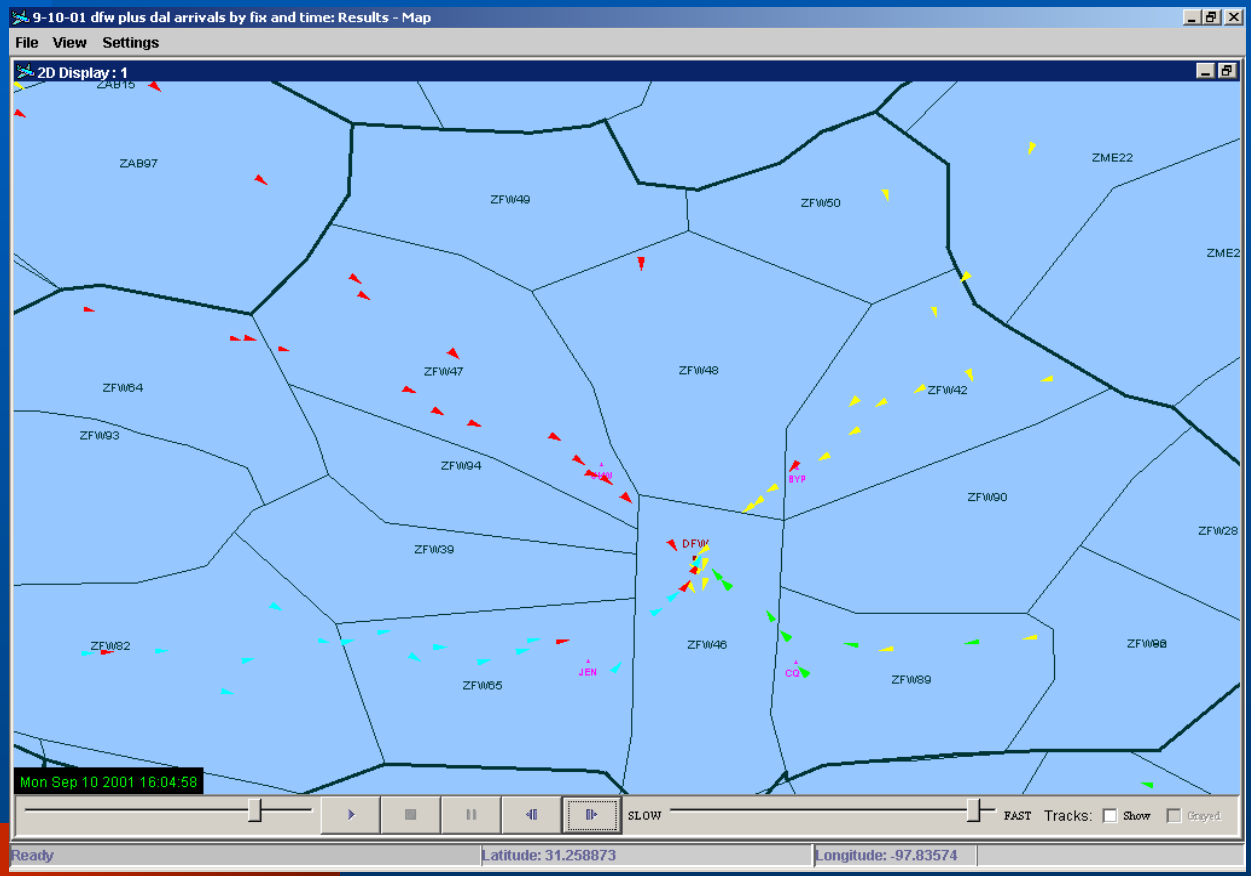
9-10-01 dfw plus dal arrivals by fix and time: Results - Map
File View Settings
2D Display : 1
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ZFW28
ZFW39
DFW
ZFW82
ZFW46
ZFW98
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FAST
Tracks:
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Ready
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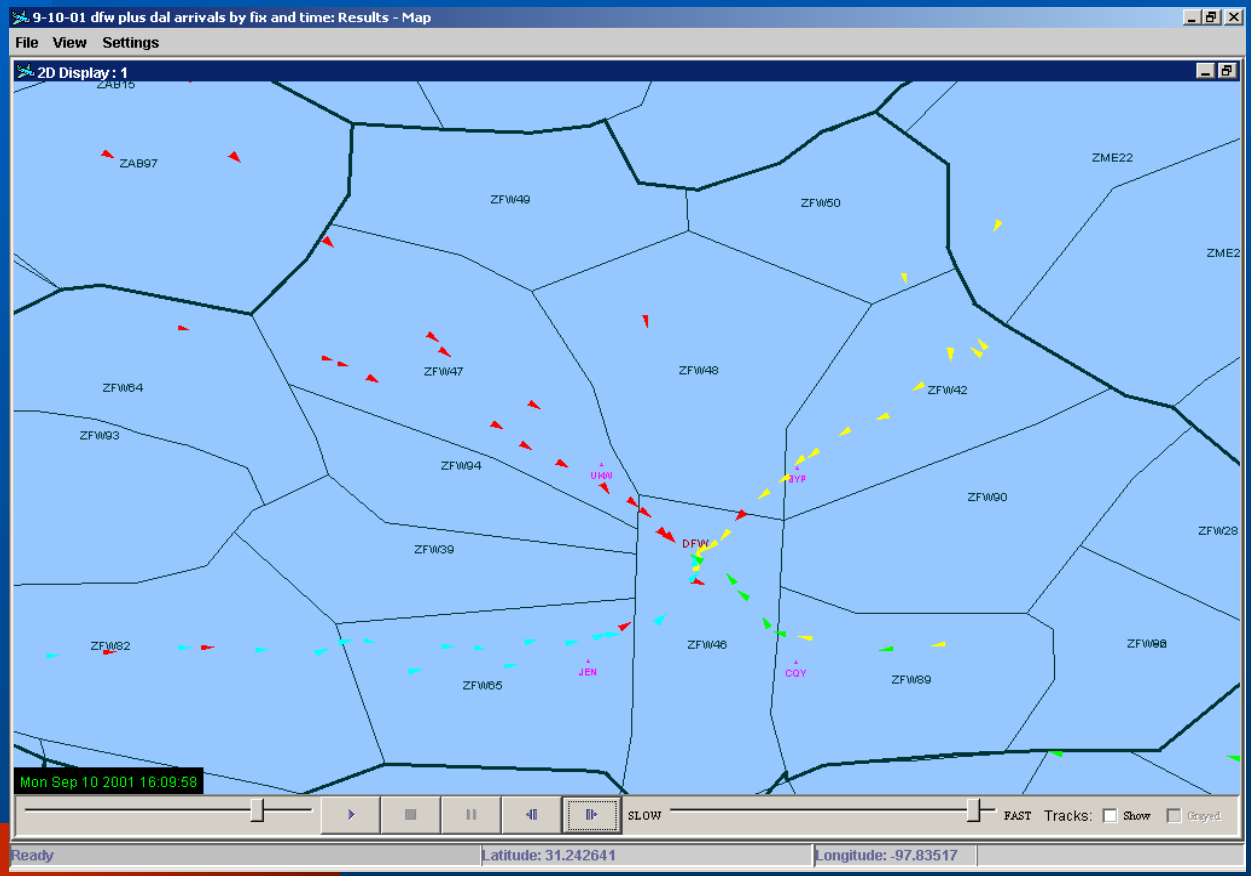
9-10-01 dfw plus dal arrivals by fix and time: Results - Map
File View Settings
2D Display : 1
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ZFW47
ZFW48
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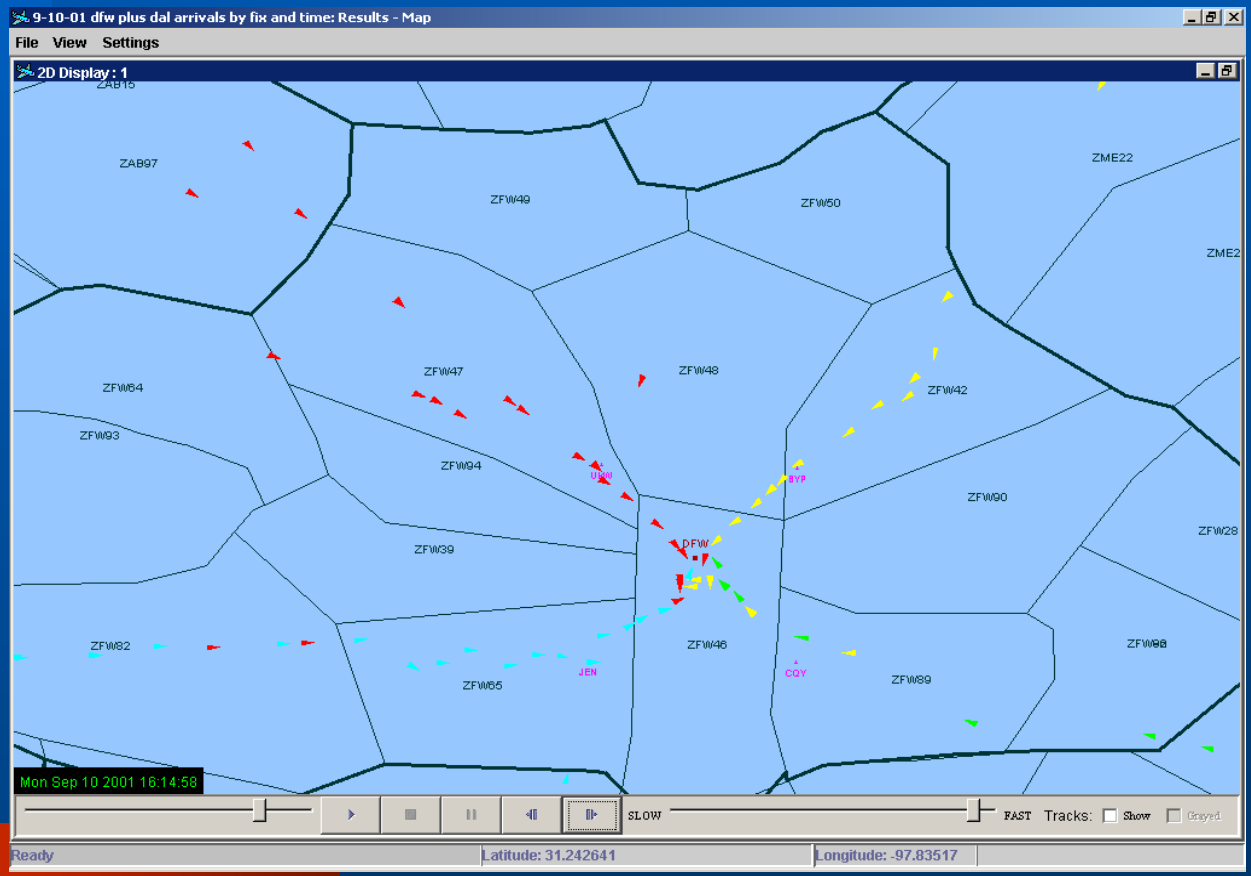
ZFW93
ZFW94
UMN
JYP
ZFW90
ZFW28
ZFW39
DFW
ZFW82
ZFW46
ZFW98
JEN
CQY
ZFW89
ZFW65
Mon Sep 10 2001 16:09:58
SLOW
FAST
Tracks:
Show
Grayed
Ready
Latitude: 31.242641
Longitude: -97.83517


9-10-01 dfw plus dal arrivals by fix and time: Results - Map
File View Settings
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ZFW82
ZFW46
ZFW98
ZFW65
ZFW89
JEN
CQY
BYP
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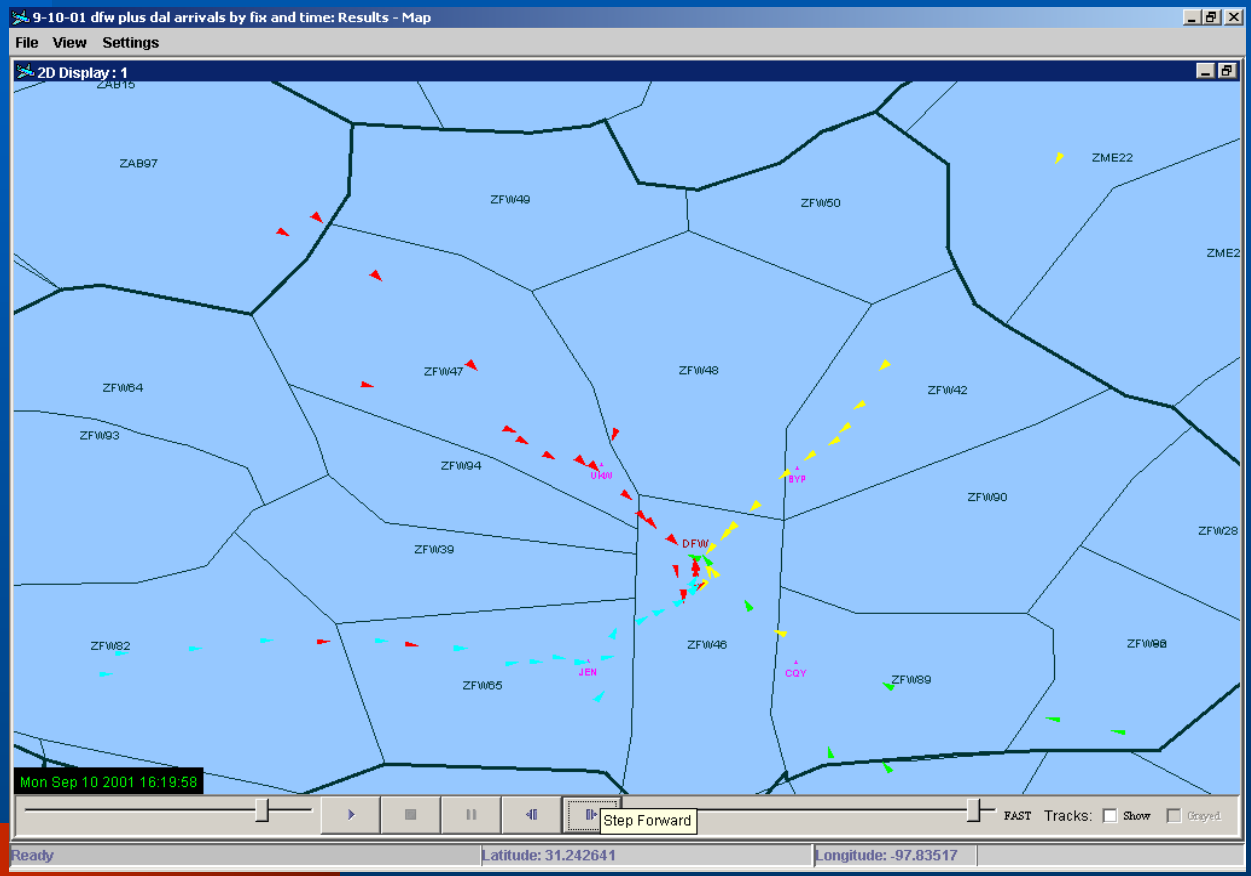
SLOW
FAST
Tracks:
Show
Ready
Latitude: 31.242641
Longitude: -97.83517


9-10-01 dfw plus dal arrivals by fix and time: Results - Map
File View Settings
2D Display : 1
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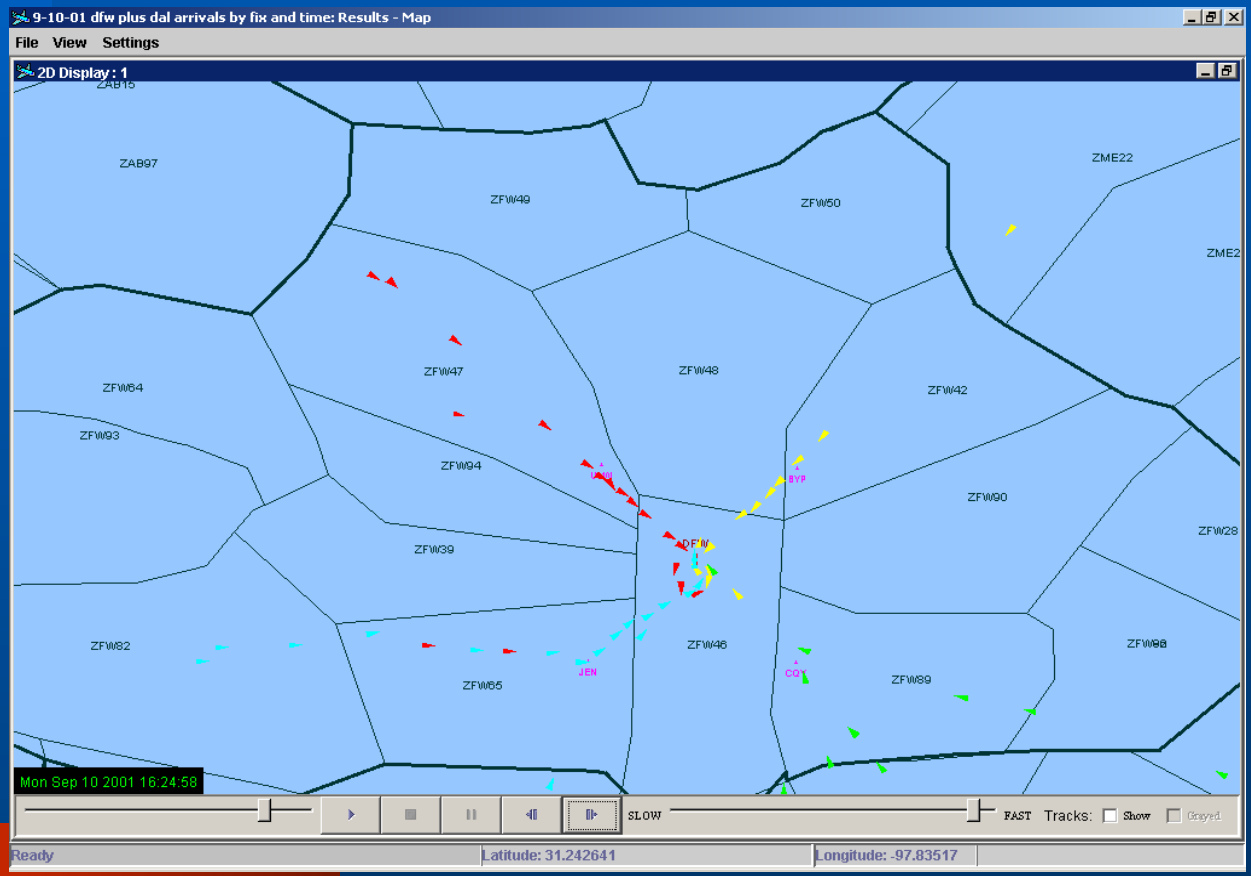
ZFW98
JEN
CQY
ZFW89
ZFW65
Mon Sep 10 2001 16:19:58
Step Forward
FAST
Tracks:
Show
Ready
Latitude: 31.242641
Longitude: -97.83517


9-10-01 dfw plus dal arrivals by fix and time: Results - Map
File View Settings
2D Display : 1
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ZFW39
ZFW82
ZFW46
ZFW98
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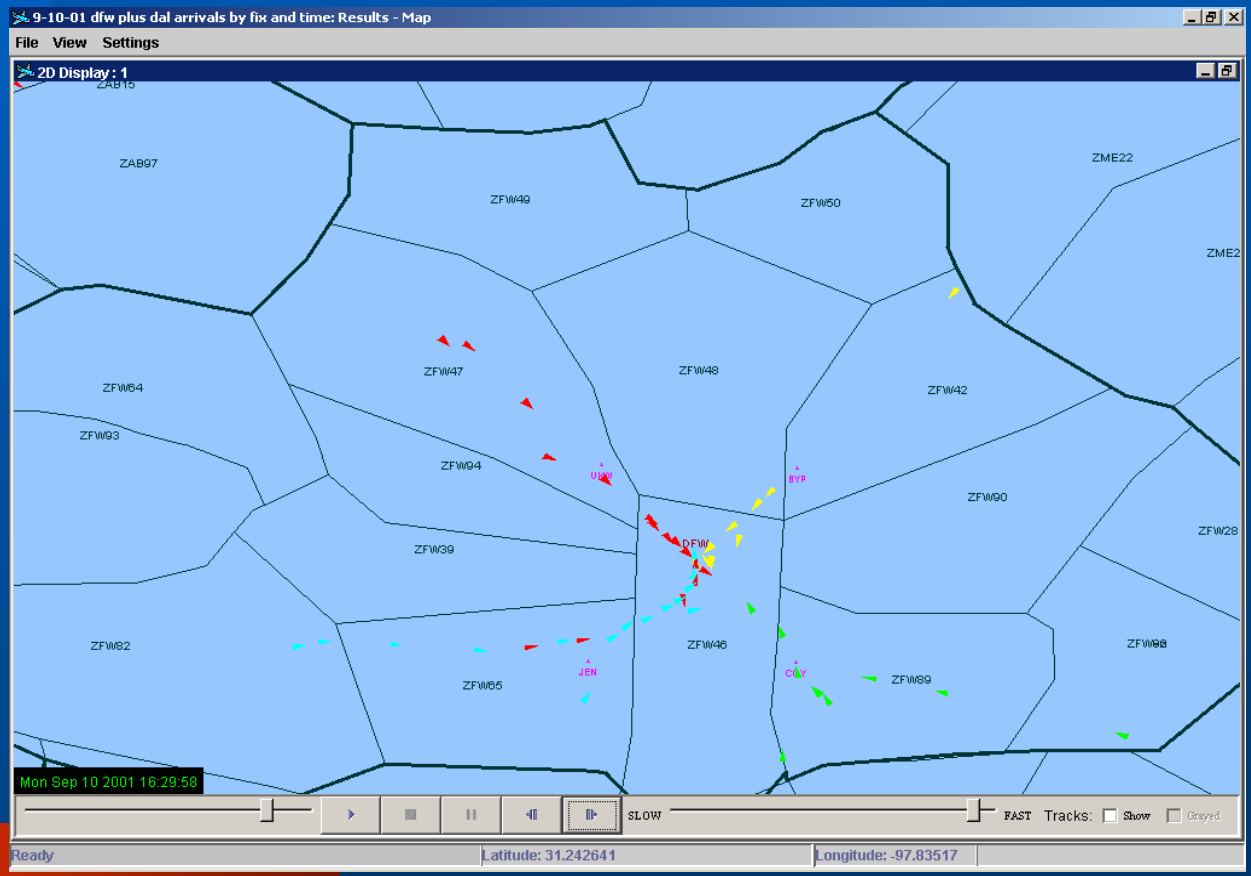
Mon Sep 10 2001 16:24:58
SLOW
FAST
Tracks:
Show
Ready
Latitude: 31.242641
Longitude: -97.83517


9-10-01 dfw plus dal arrivals by fix and time: Results - Map
File View Settings
2D Display : 1
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DFW
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ZFW65
ZFW89
JEN
BYP
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SLOW
FAST
Tracks:
Show
Ready
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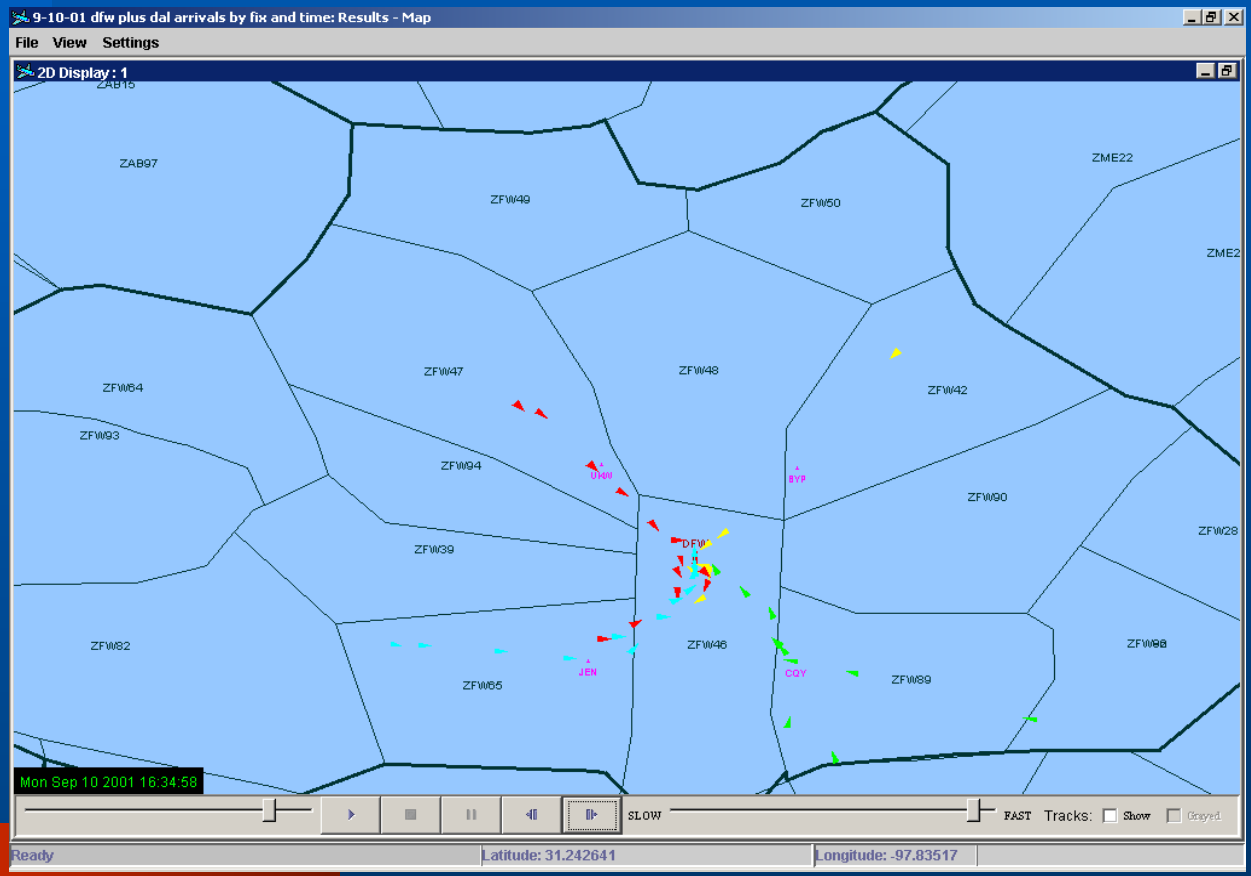
9-10-01 dfw plus dal arrivals by fix and time: Results - Map
File View Settings
2D Display : 1
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ZFW82
ZFW46
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ZFW65
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DFW
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Mon Sep 10 2001 16:34:58
SLOW
FAST
Tracks:
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Ready
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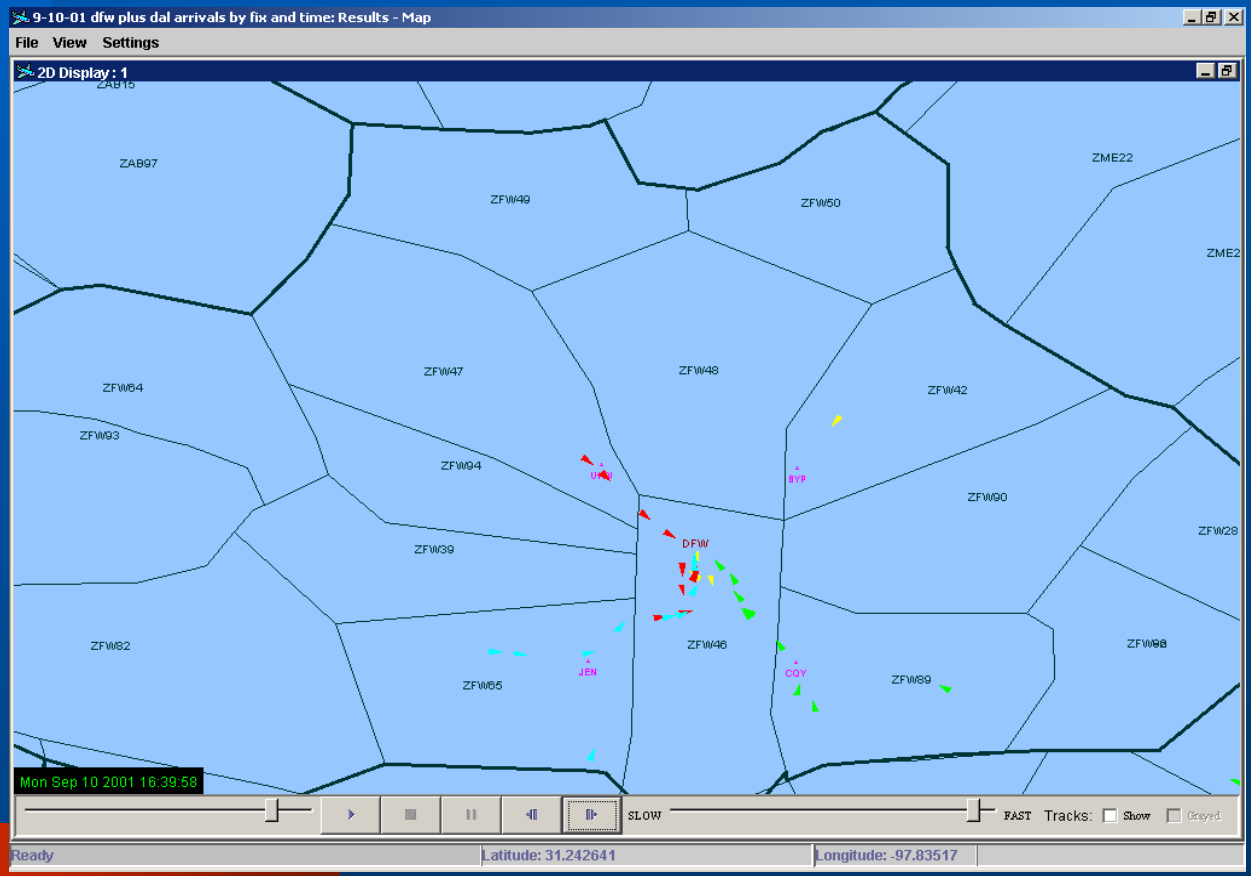
Longitude: -97.83517


9-10-01 dfw plus dal arrivals by fix and time: Results - Map
File View Settings
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DFW
ZFW82
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JEN
CQY
ZFW89
Mon Sep 10 2001 16:39:58
SLOW
FAST
Tracks:
Show
Ready
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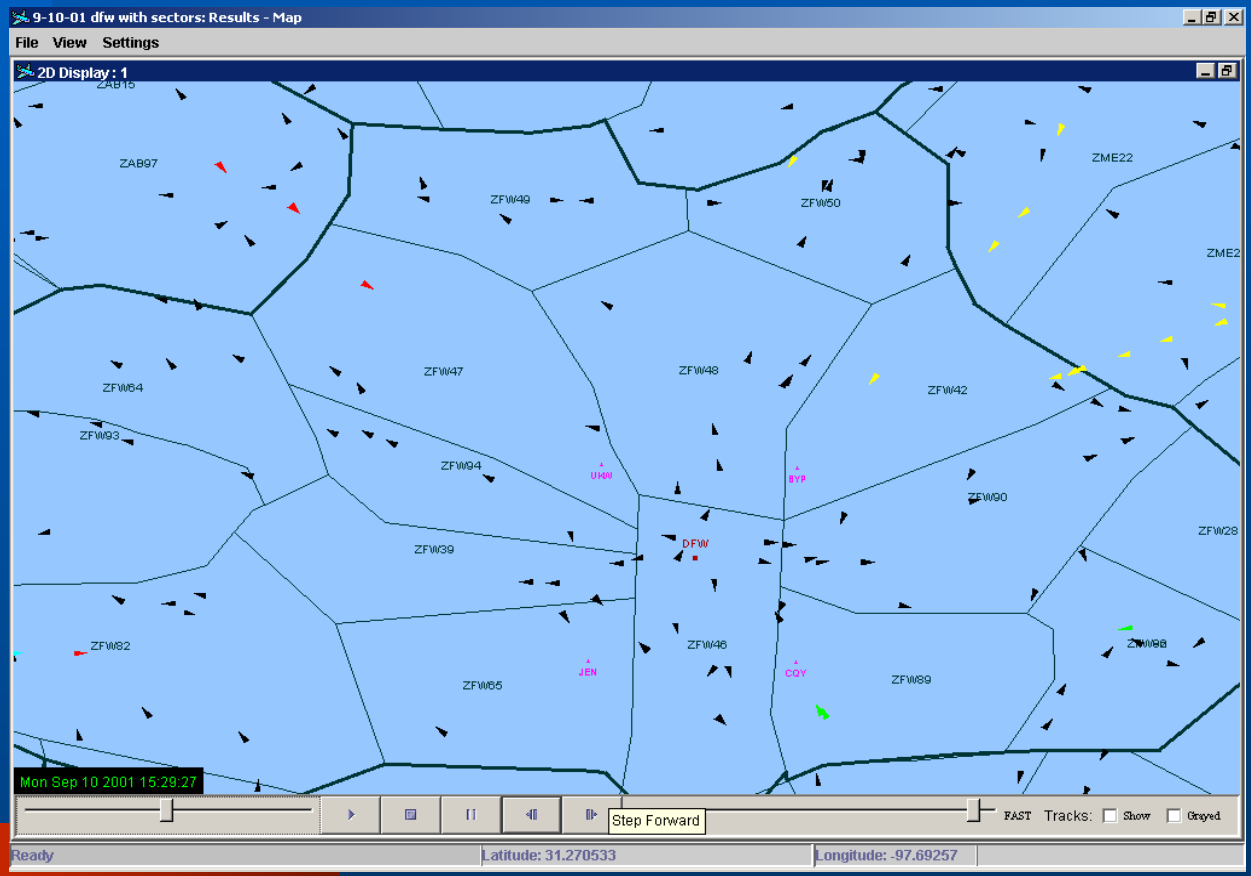
Longitude: -97.83517

AOC Scenario

Departures and overflights
added to arrivals color-coded by arrival fix
(with ETMS errors in fix determination)


9-10-01 dfw with sectors: Results - Map
File View Settings
2D Display : 1
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UHW
BYP
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ZFW28
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DFW
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ZFW46
ZFW98
JEN
CQY
ZFW89
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Mon Sep 10 2001 15:29:27
Step Forward
FAST
Tracks:
Show
Grayed
Ready
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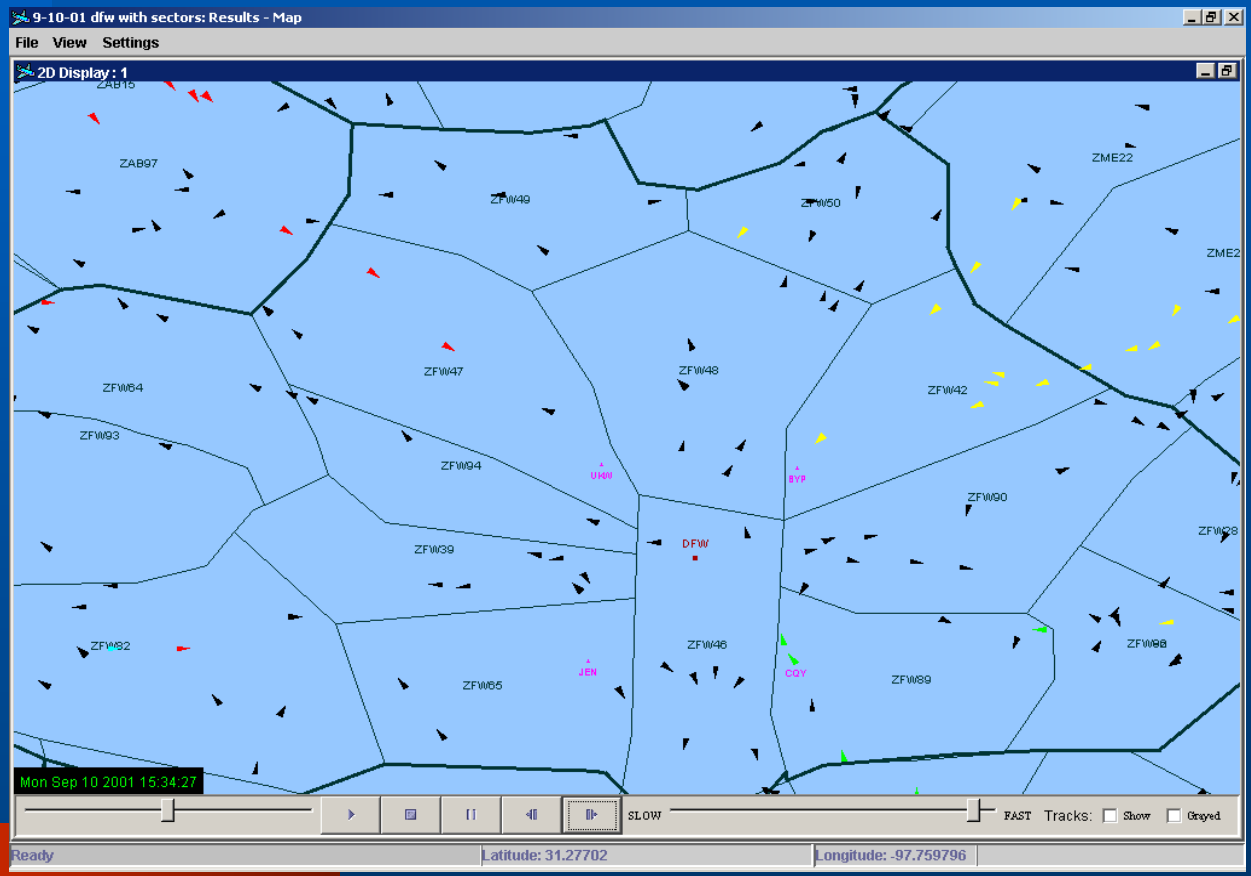
9-10-01 dfw with sectors: Results - Map
File View Settings
2D Display : 1
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DFW
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ZFW98
ZFW65
JEN
CQY
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SLOW
FAST
Tracks:
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Grayed
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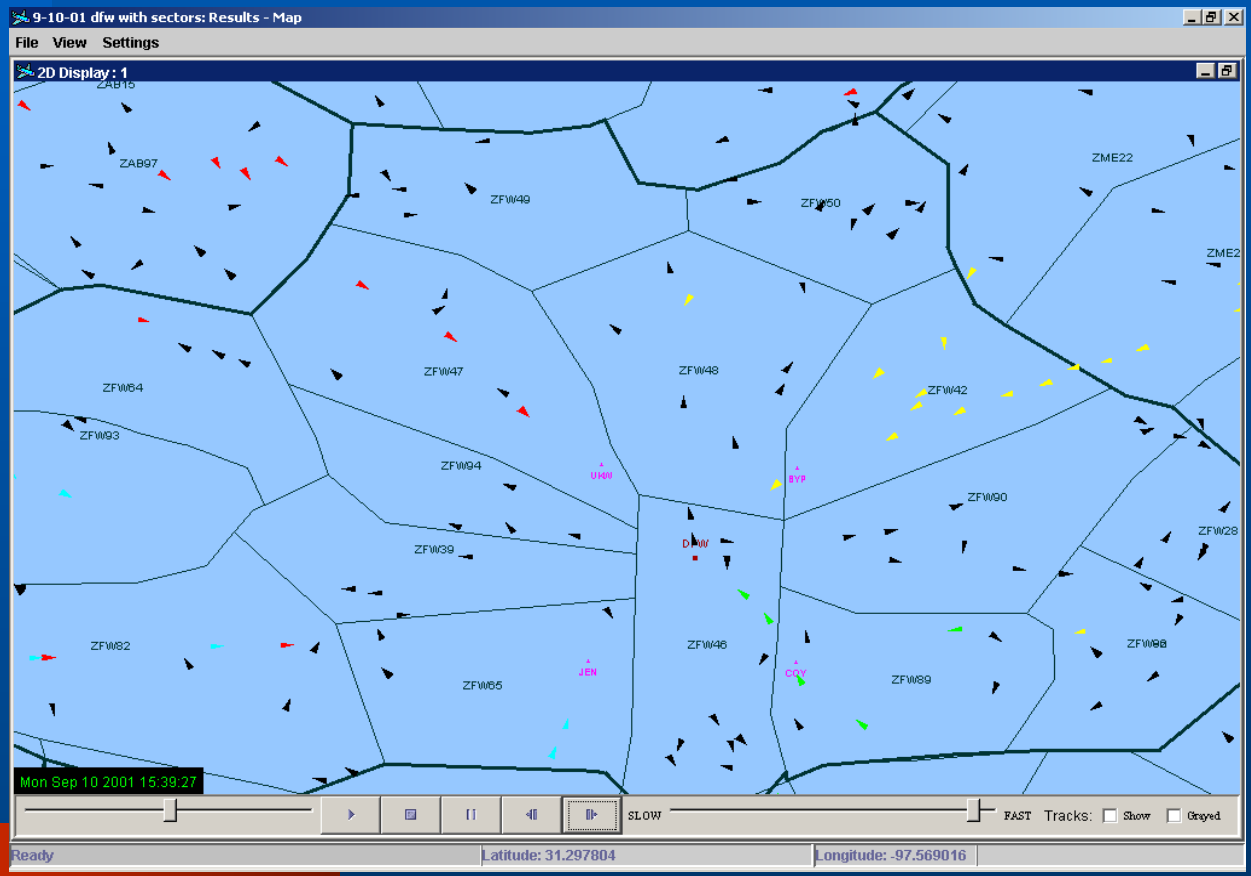
9-10-01 dfw with sectors: Results - Map
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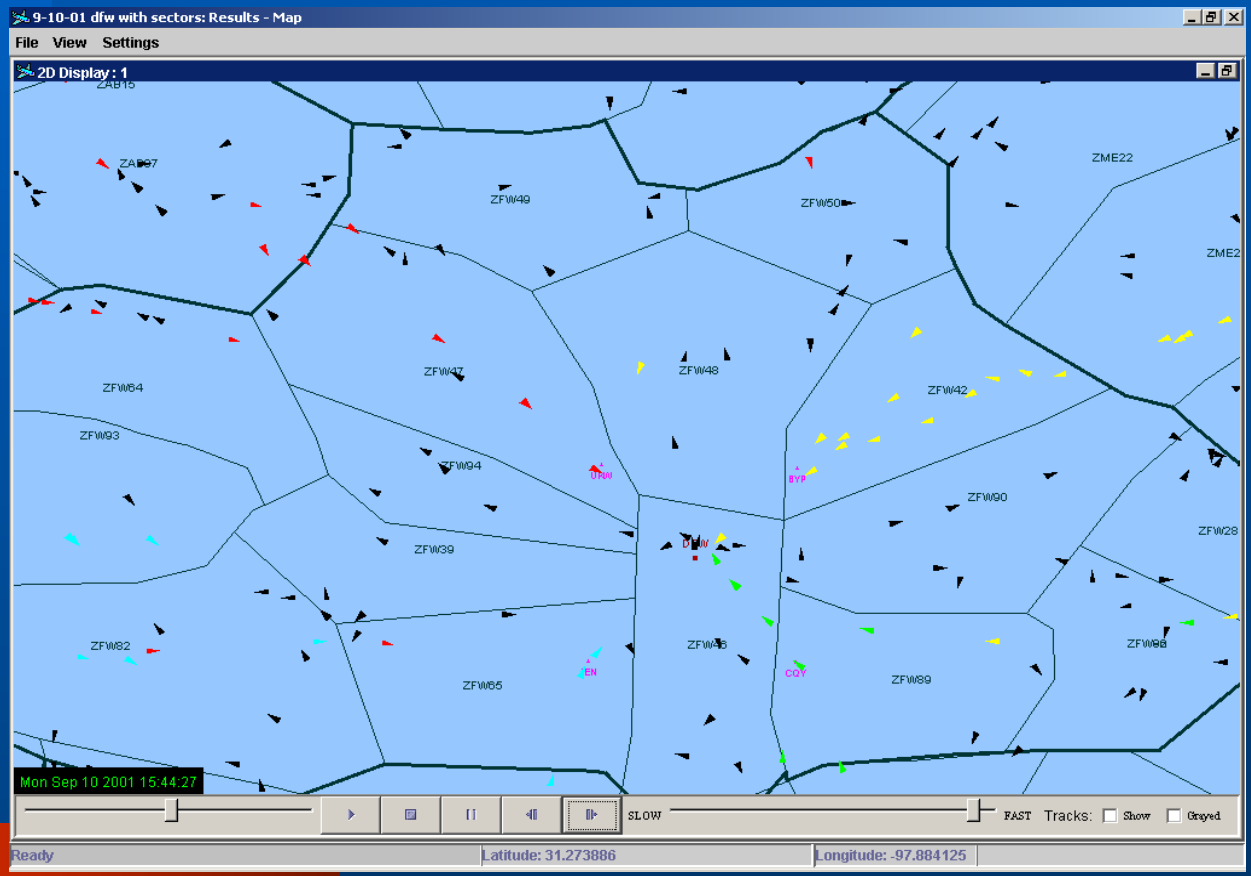
9-10-01 dfw with sectors: Results - Map
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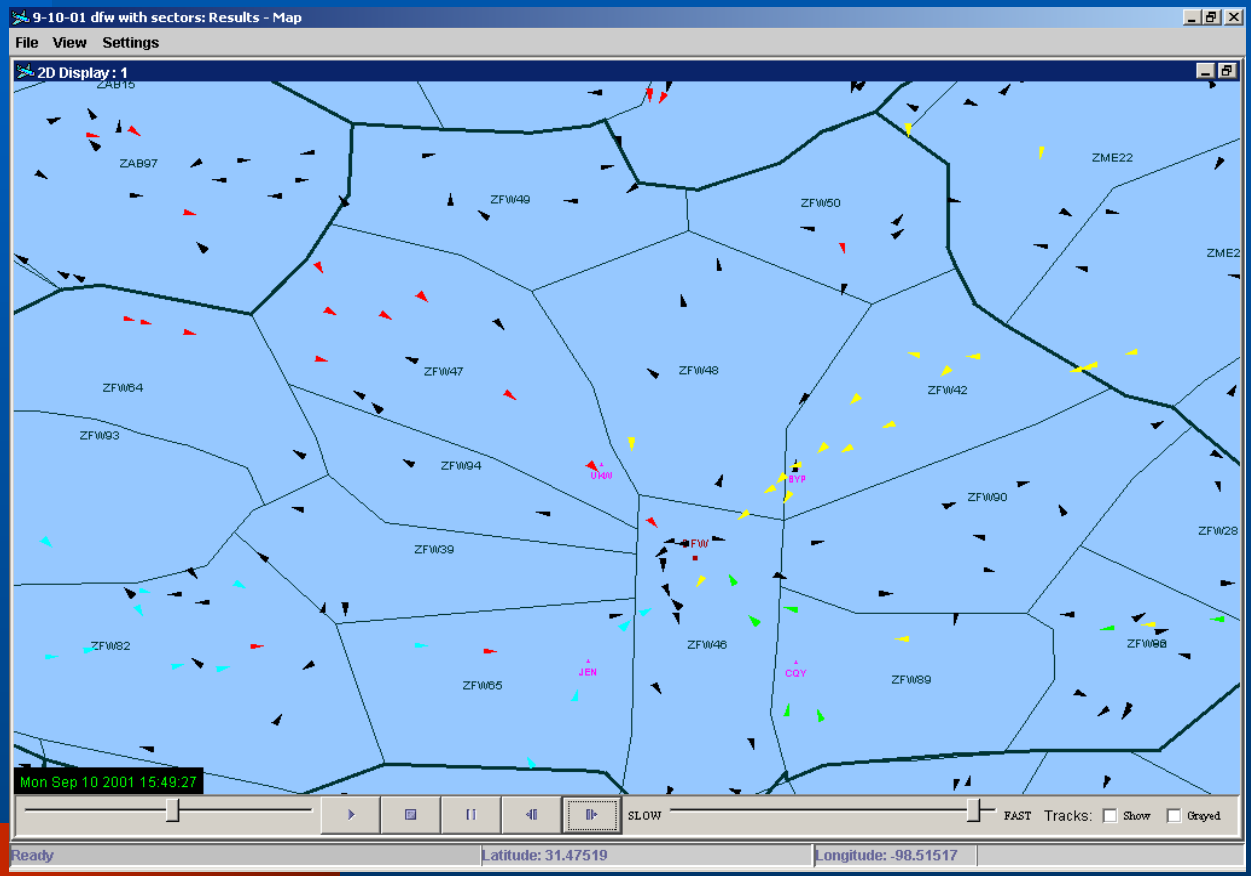
9-10-01 dfw with sectors: Results - Map
File View Settings
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SLOW
FAST
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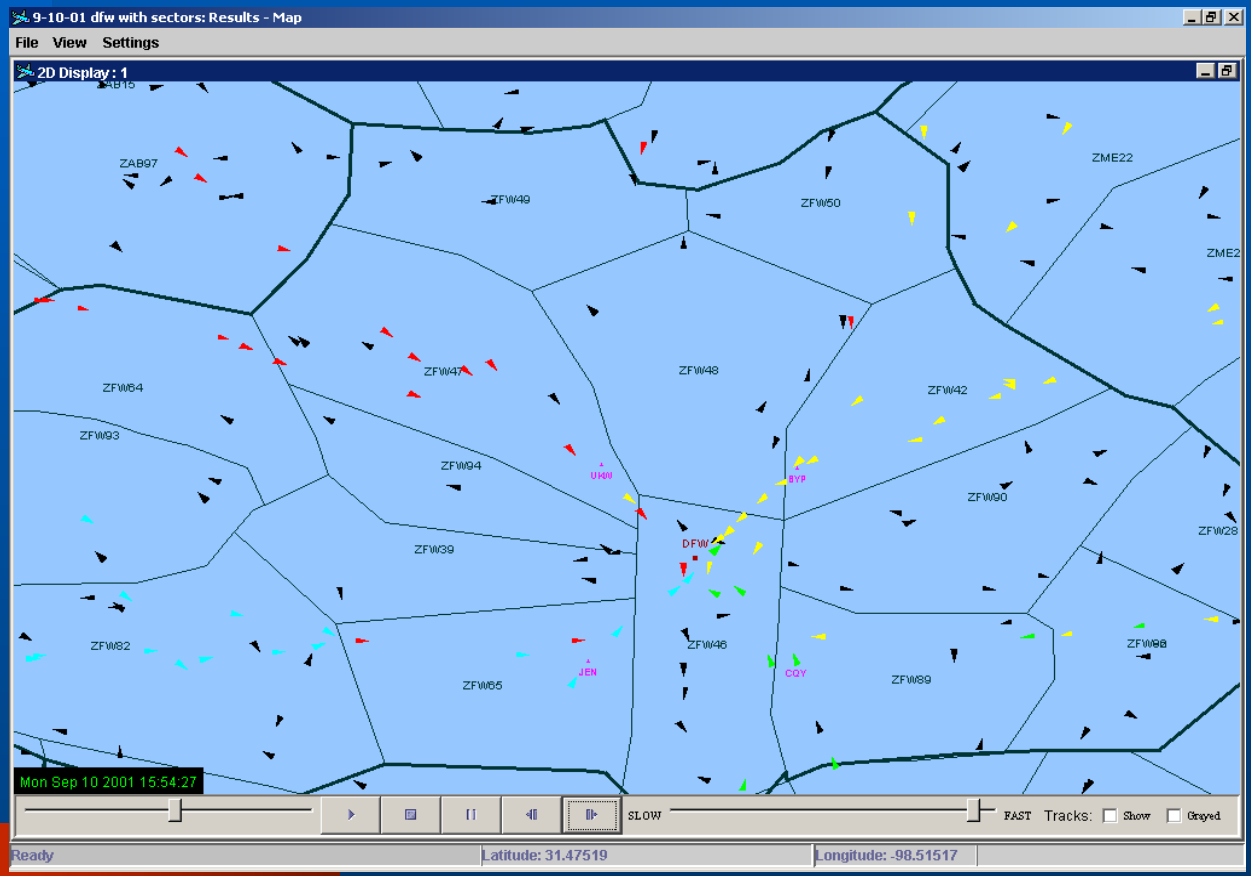
9-10-01 dfw with sectors: Results - Map
File View Settings
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ZFW65
ZFW89
UHW
BYP
DFW
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Mon Sep 10 2001 15:54:27
SLOW
FAST
Tracks:
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Grayed
Ready
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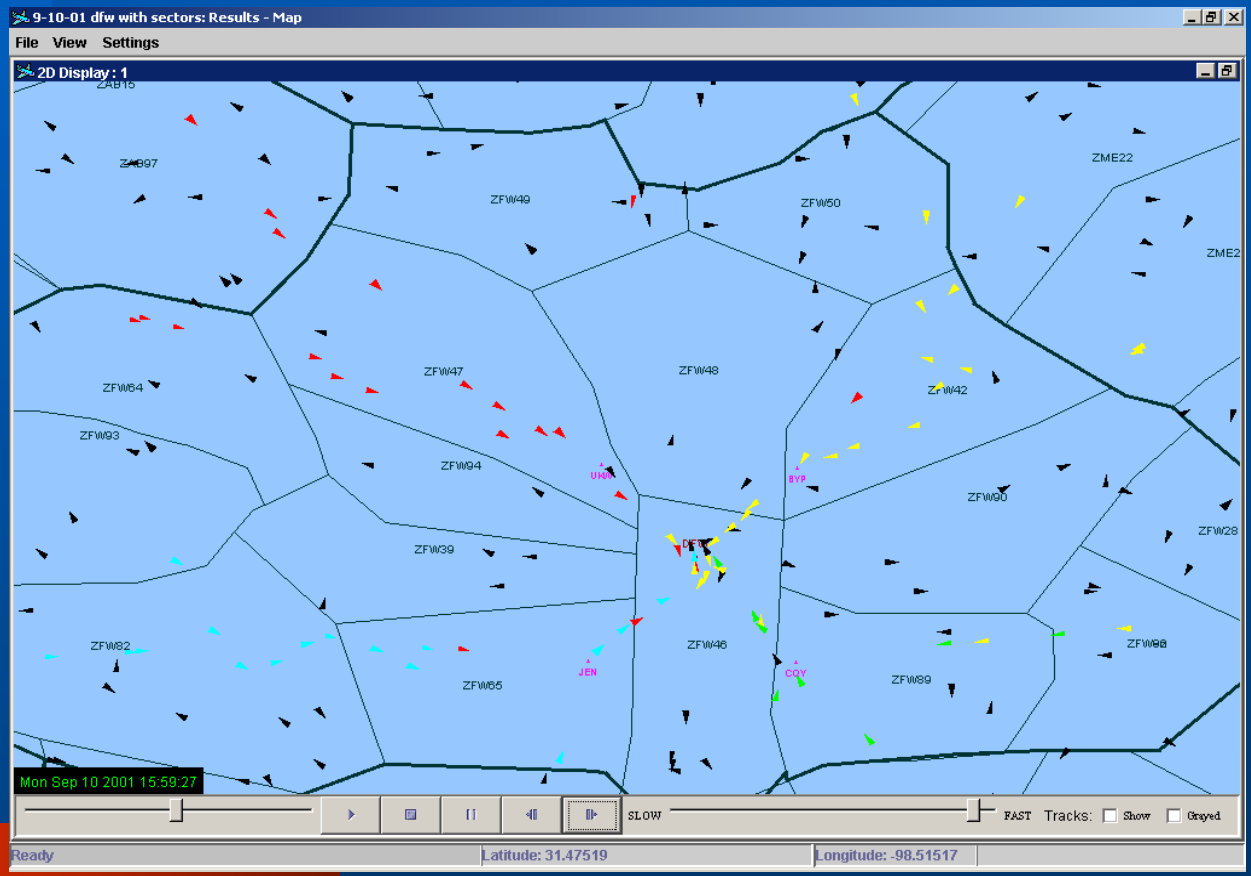
9-10-01 dfw with sectors: Results - Map
File View Settings
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SLOW
FAST
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Ready
Latitude: 31.47519
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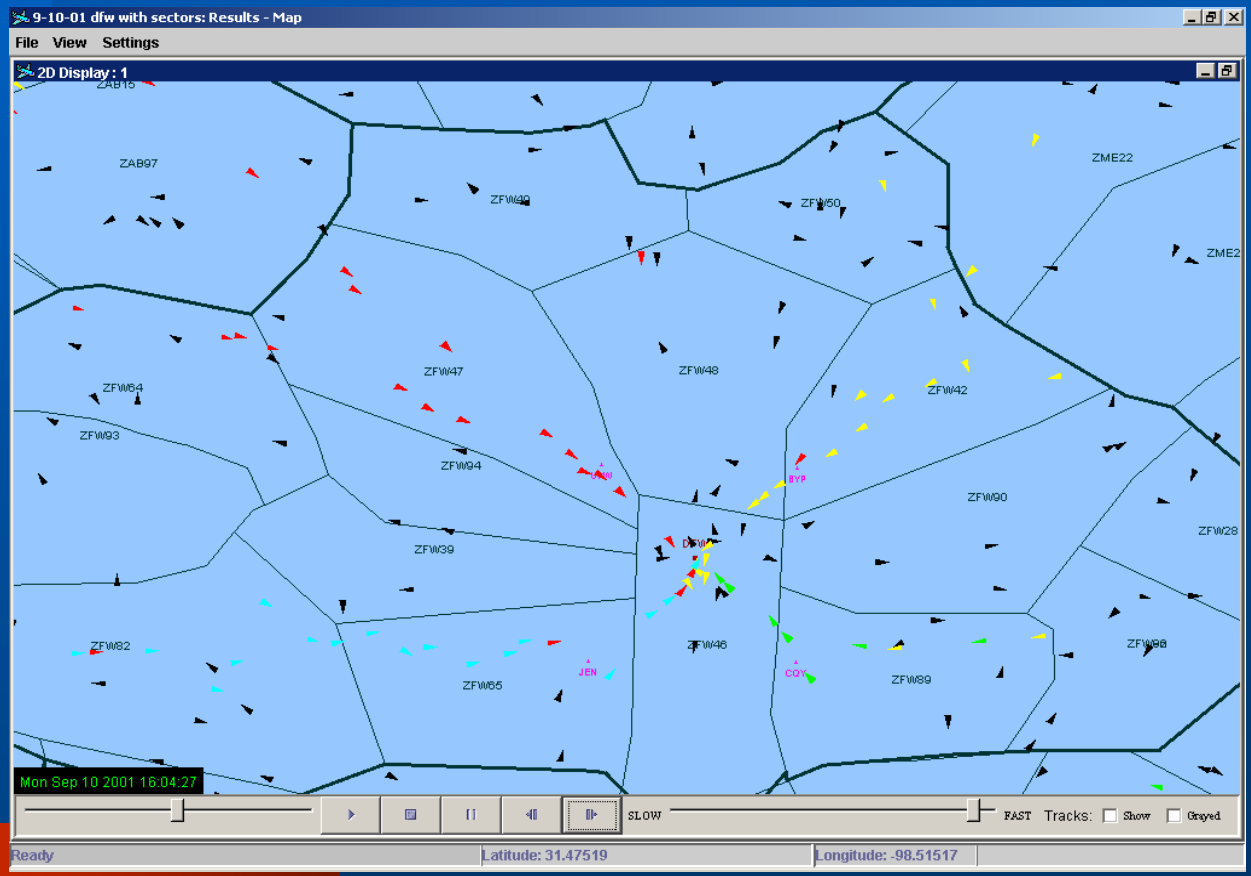
9-10-01 dfw with sectors: Results - Map
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ZFW98
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ZFW89
Mon Sep 10 2001 16:04:27
SLOW
FAST
Tracks:
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Grayed
Ready
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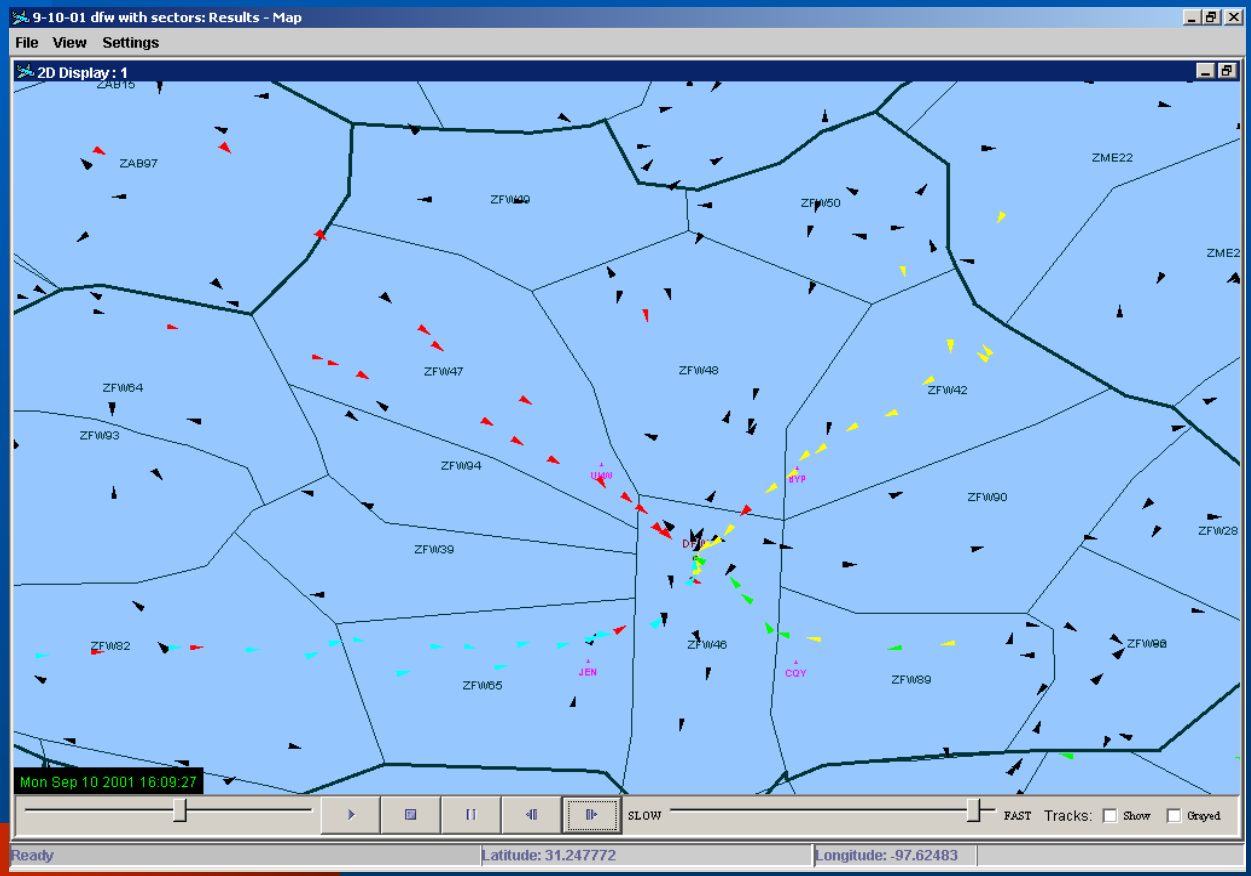
9-10-01 dfw with sectors: Results - Map
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ZFW89
JEN
CQY
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SLOW
FAST
Tracks:
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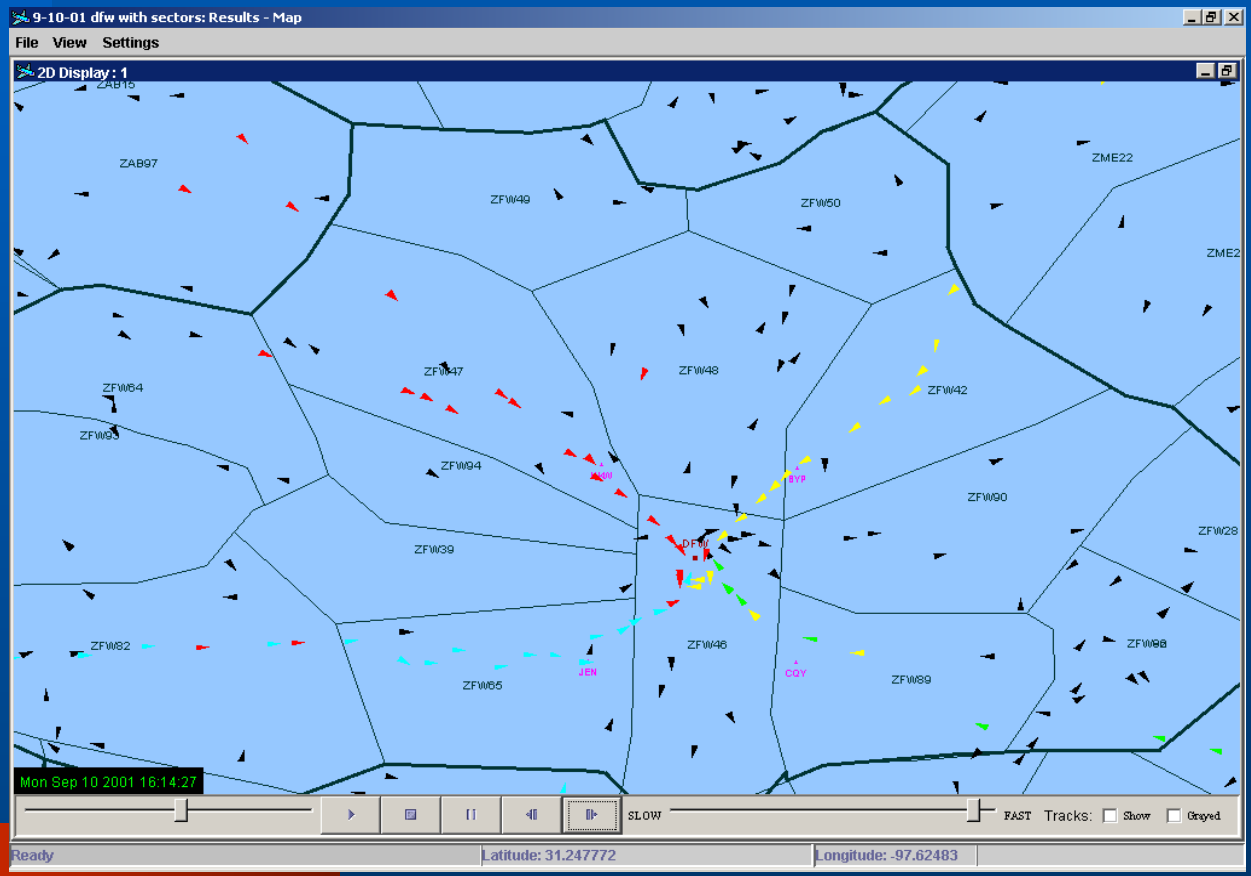
9-10-01 dfw with sectors: Results - Map
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ZFW28
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ZFW82
ZFW46
ZFW98
ZFW65
ZFW89
DFW
Mon Sep 10 2001 16:14:27
SLOW
FAST
Tracks:
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Grayed
Ready
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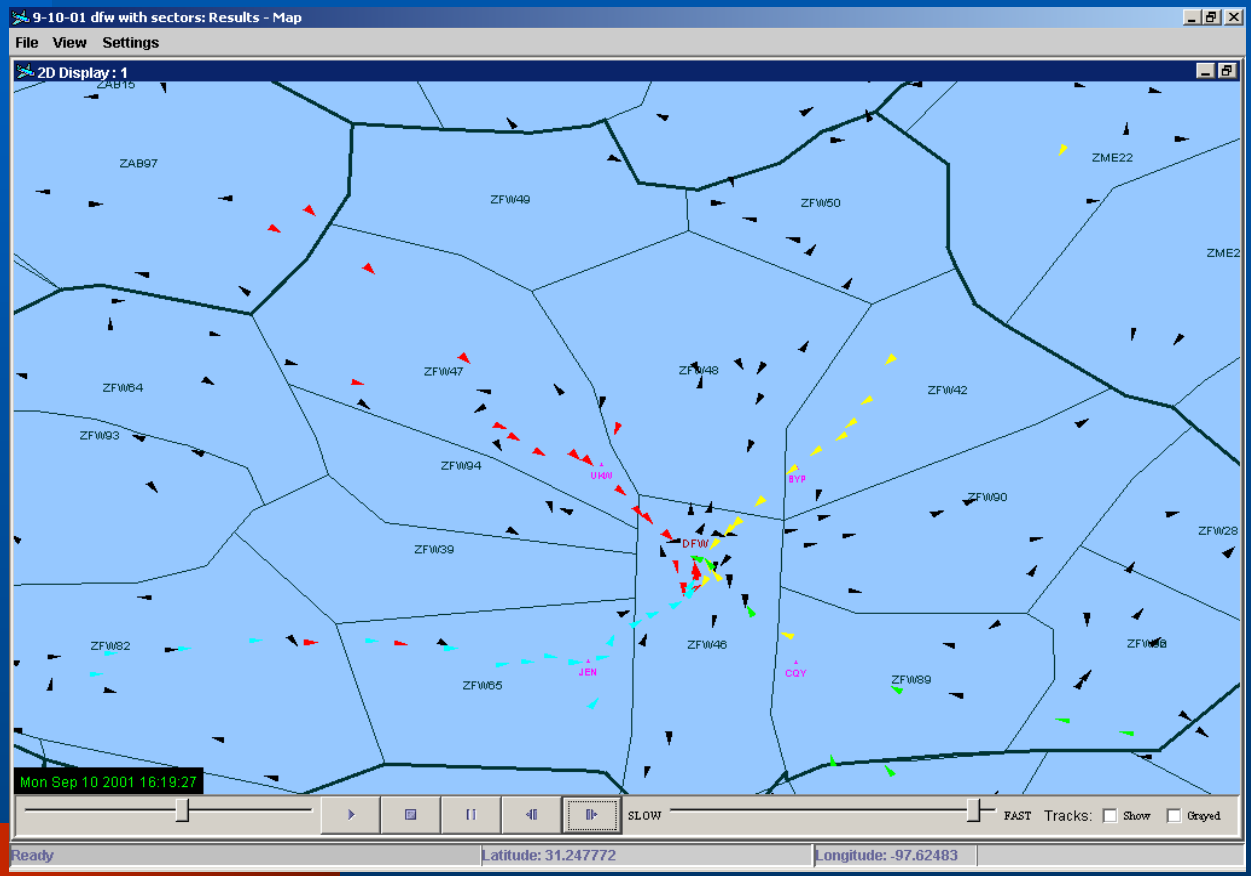
Longitude: -97.62483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DFW
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ZFW65
JEN
CQY
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Mon Sep 10 2001 16:19:27
SLOW
FAST
Tracks:
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Grayed
Ready
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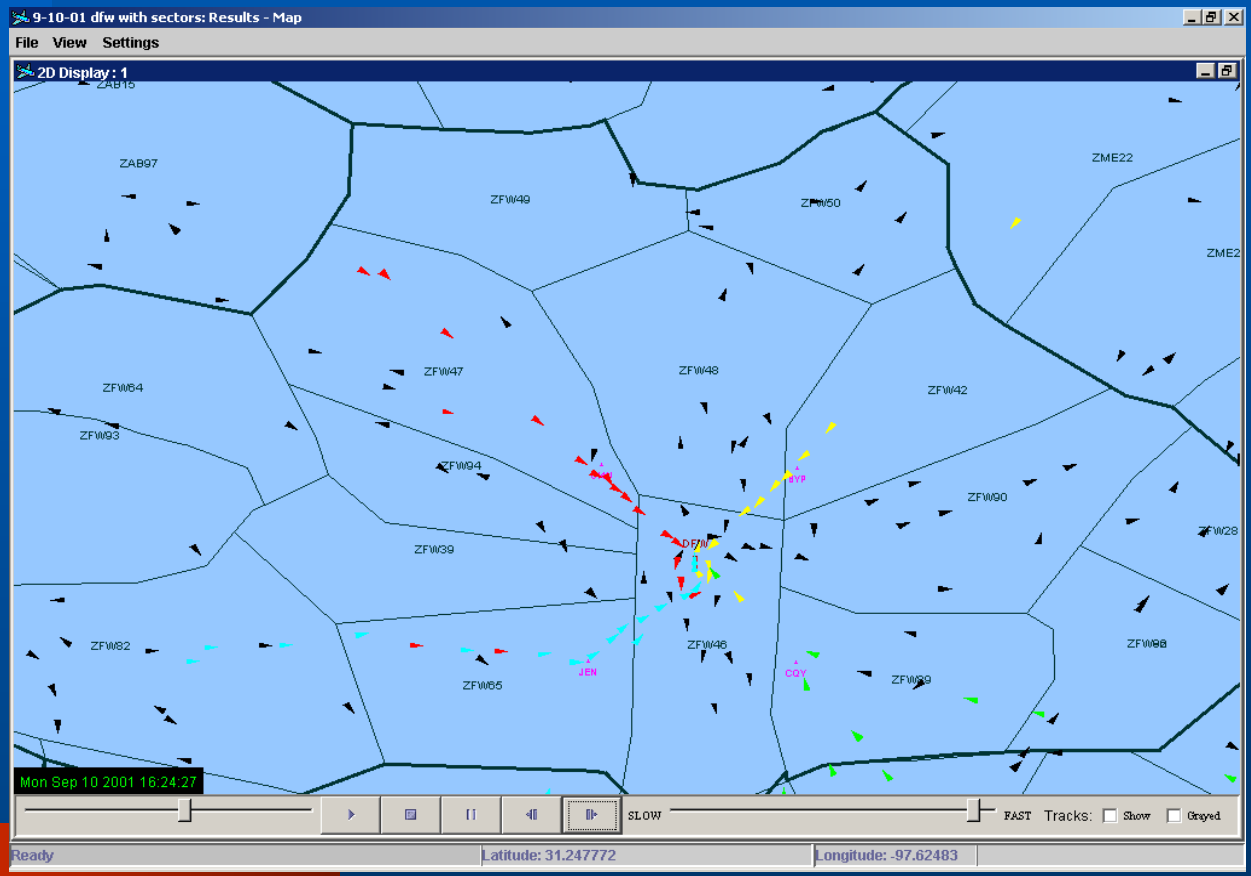
Longitude: -97.62483


9-10-01 dfw with sectors: Results - Map
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DFW
ZFW82
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ZFW98
ZFW65
JEN
CQY
ZFW89
Mon Sep 10 2001 16:24:27
SLOW
FAST
Tracks:
Show
Grayed
Ready
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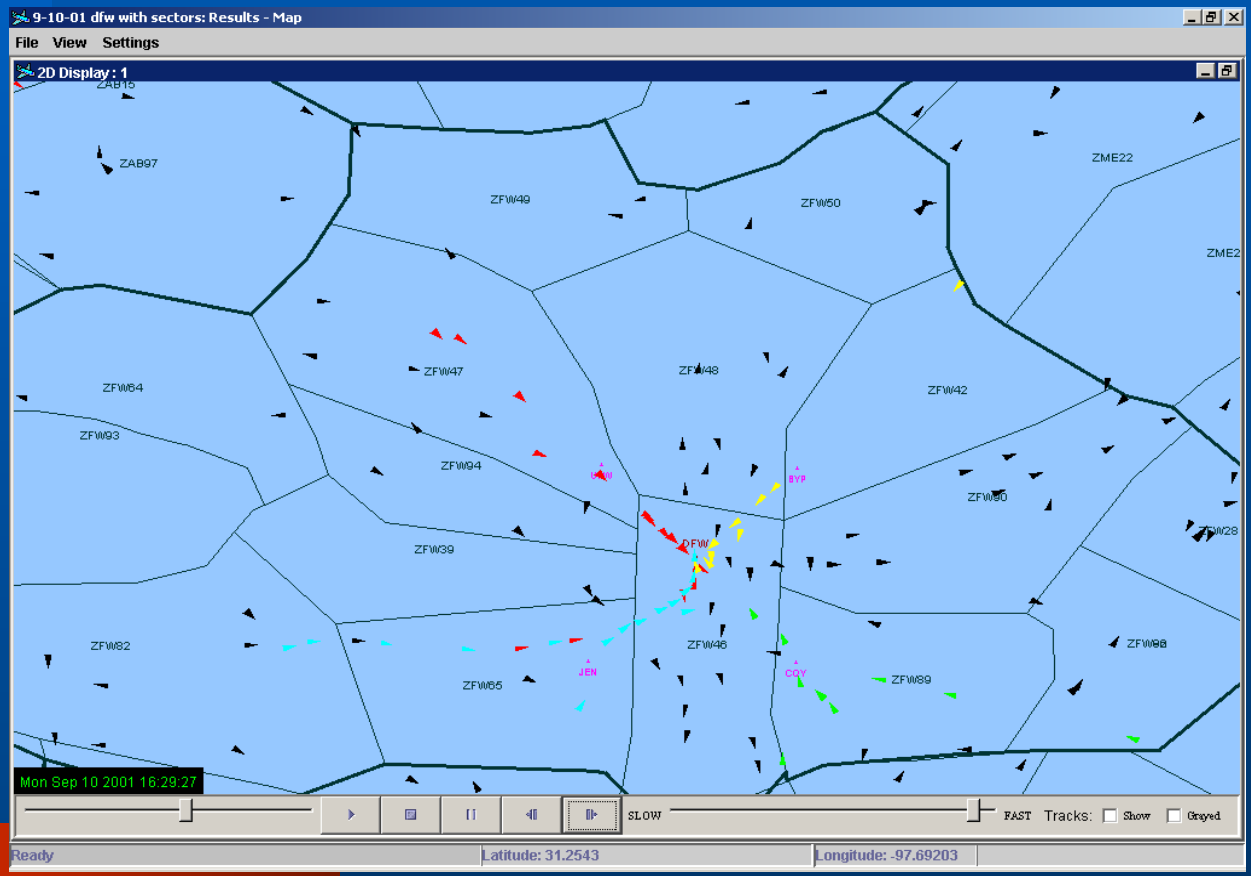
Longitude: -97.62483


9-10-01 dfw with sectors: Results - Map
File View Settings
2D Display : 1
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ZFW50
ZME22
ZFW47
ZFW48
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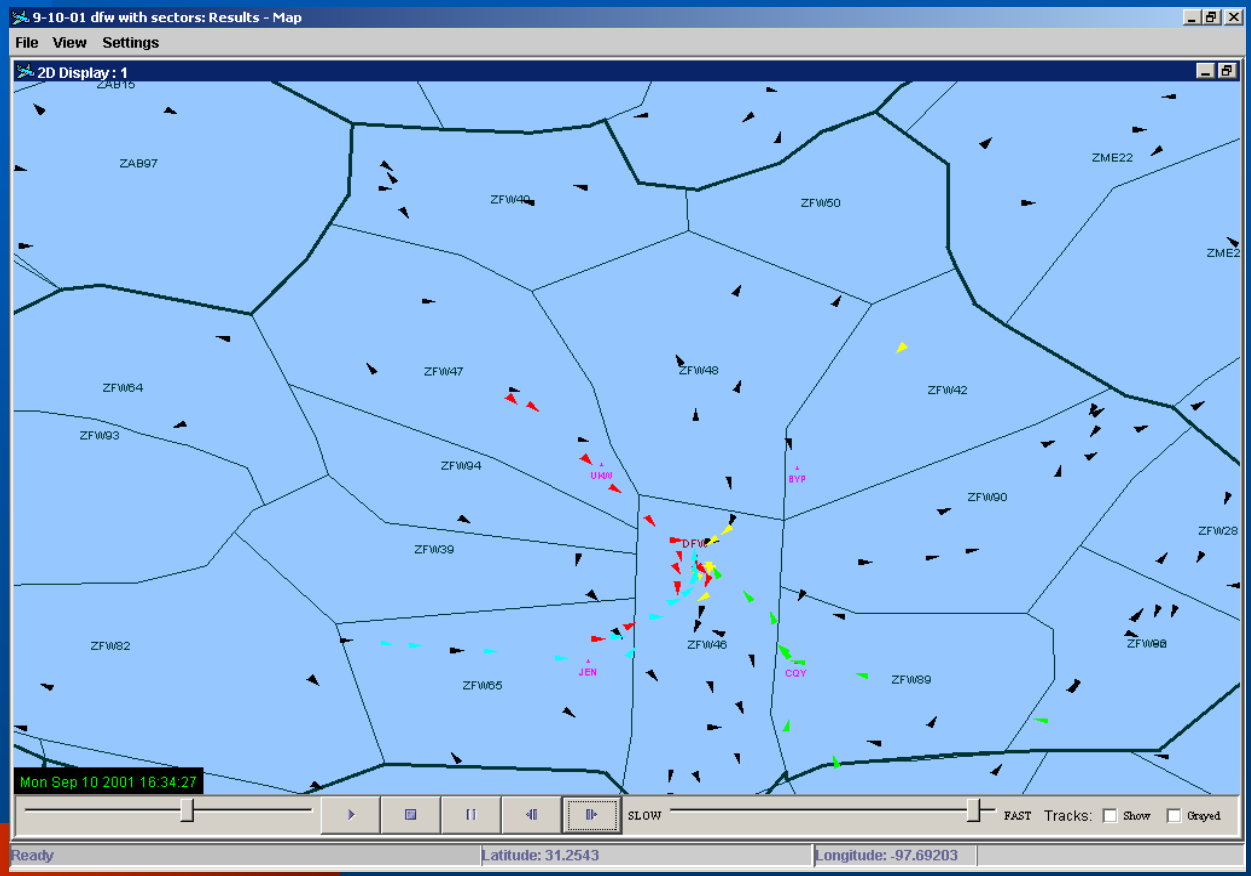
ZFW94
ZFW39
ZFW82
ZFW65
ZFW46
ZFW89
ZFW98
DFW
Mon Sep 10 2001 16:29:27
SLOW
FAST
Tracks:
Show
Grayed
Ready
Latitude: 31.2543
Longitude: -97.69203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ZFW42
ZFW93
ZFW94
UMN
BYP
ZFW90
ZFW39
DFW
ZFW28
ZFW82
ZFW46
ZFW98
JEN
CQY
ZFW65
ZFW89
Mon Sep 10 2001 16:34:27
SLOW
FAST
Tracks:
Show
Grayed
Ready
Latitude: 31.2543
Longitude: -97.69203

AOC Scenario - Triggering Event

The scenario should represent a situation:

- **where the triggering event is unexpected**
- **where the required response time to this event provides enough time for AOCs to be in the loop)**

AOC Scenario - Triggering Event

The scenario should represent a situation:

- where the event results in a 1-2 hour reduction of the acceptable arrival rate via UKW (but where this reduction is not down to 0 aircraft), thus making the impact of the prioritization of a large number of flights significant
- Close 13R; leave 18R open

AOC Scenario - Criteria

The scenario should represent a situation:

- presenting an opportunity to improve efficiency (i.e., solve a real problem)
- with an opportunity to improve efficiency by integrating AOCs in a decision making process that arises while the affected flights are enroute
- with a problem or problems that can potentially be solved using approaches within the scope of interest to NASA

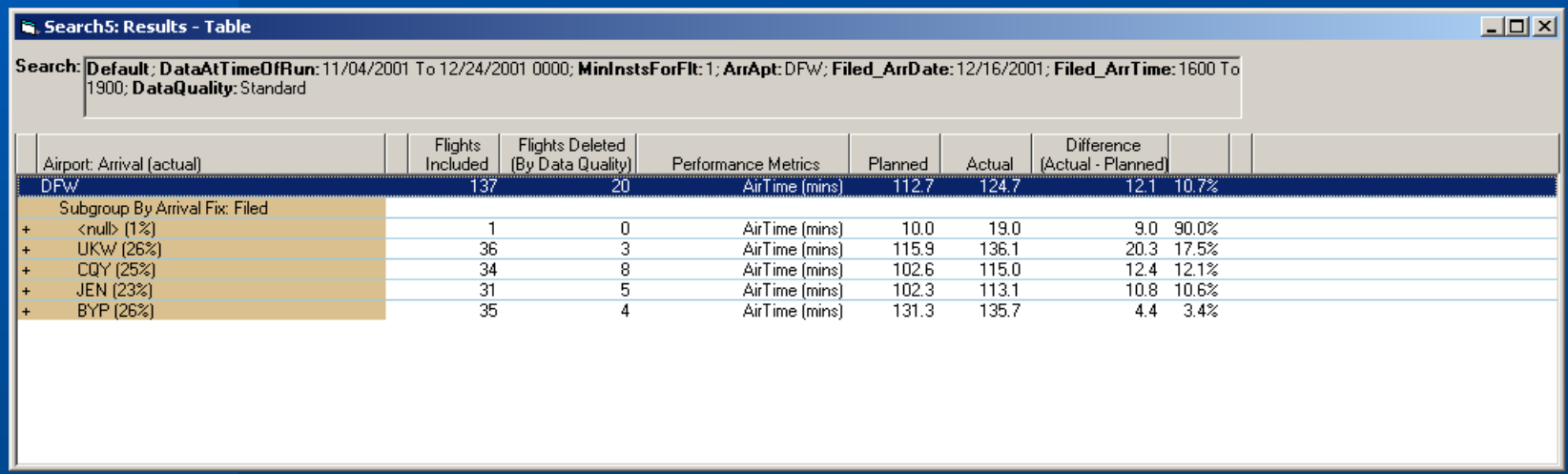
AOC Scenario - Criteria

The scenario should represent a situation:

- where the specifics can't be dealt with adequately with current technologies and procedures (baseline)
- where the proposed new technologies and procedures could potentially show a significant improvement over the baseline

AOC Scenario

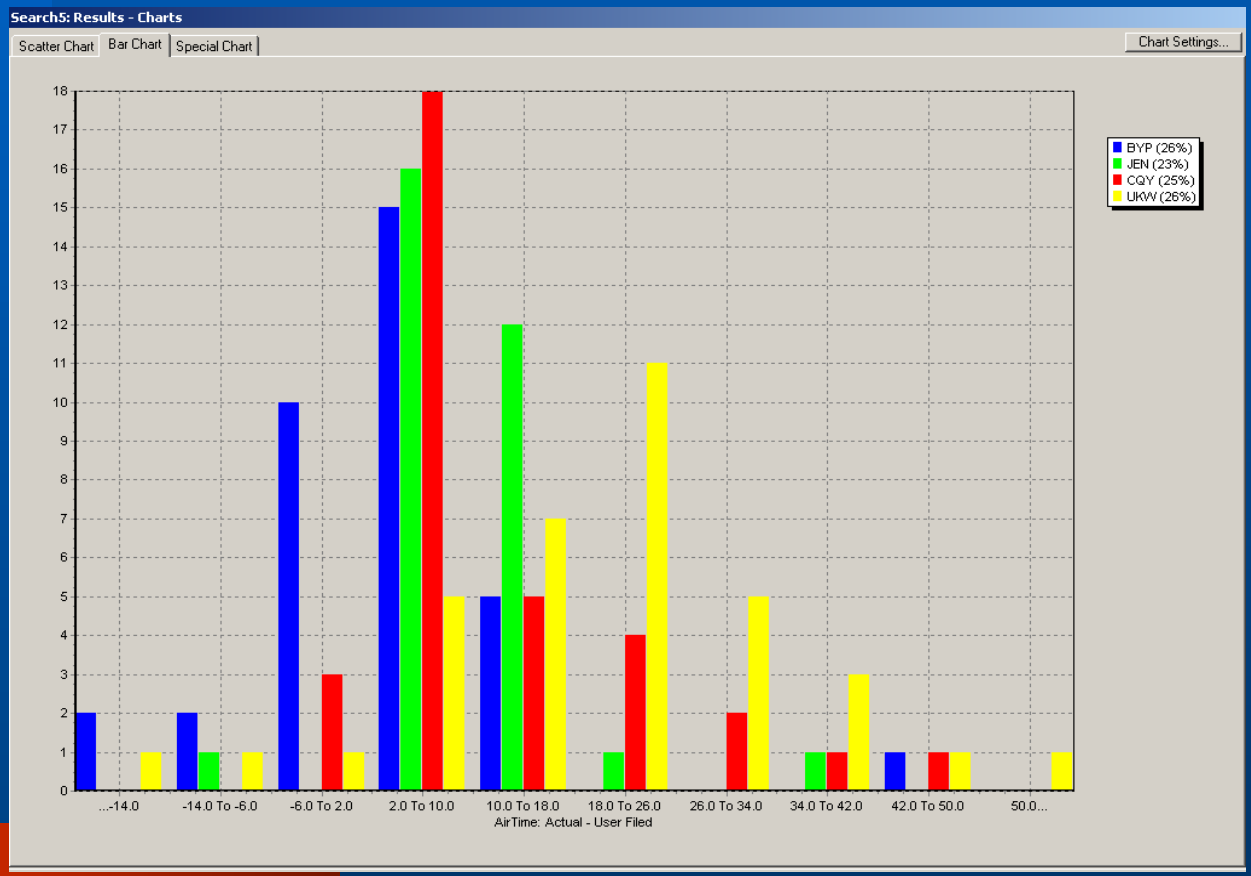
Similar actual event (12/16/01)



Search5: Results - Table

Search: **Default**; **DataAtTimeOfRun:** 11/04/2001 To 12/24/2001 0000; **MinInstsForFlt:** 1; **ArrApt:** DFW; **Filed_ArrDate:** 12/16/2001; **Filed_ArrTime:** 1600 To 1900; **DataQuality:** Standard

Airport: Arrival (actual)	Flights Included	Flights Deleted (By Data Quality)	Performance Metrics	Planned	Actual	Difference (Actual - Planned)	
DFW	137	20	AirTime (mins)	112.7	124.7	12.1	10.7%
Subgroup By Arrival Fix: Filed							
+ <null> (1%)	1	0	AirTime (mins)	10.0	19.0	9.0	90.0%
+ UKW (26%)	36	3	AirTime (mins)	115.9	136.1	20.3	17.5%
+ CQY (25%)	34	8	AirTime (mins)	102.6	115.0	12.4	12.1%
+ JEN (23%)	31	5	AirTime (mins)	102.3	113.1	10.8	10.6%
+ BYP (26%)	35	4	AirTime (mins)	131.3	135.7	4.4	3.4%


Search5: Results - Charts
Scatter Chart
Bar Chart
Special Chart
Chart Settings...
BYP (26%)
JEN (23%)
CQY (25%)
UKW (26%)
0
1
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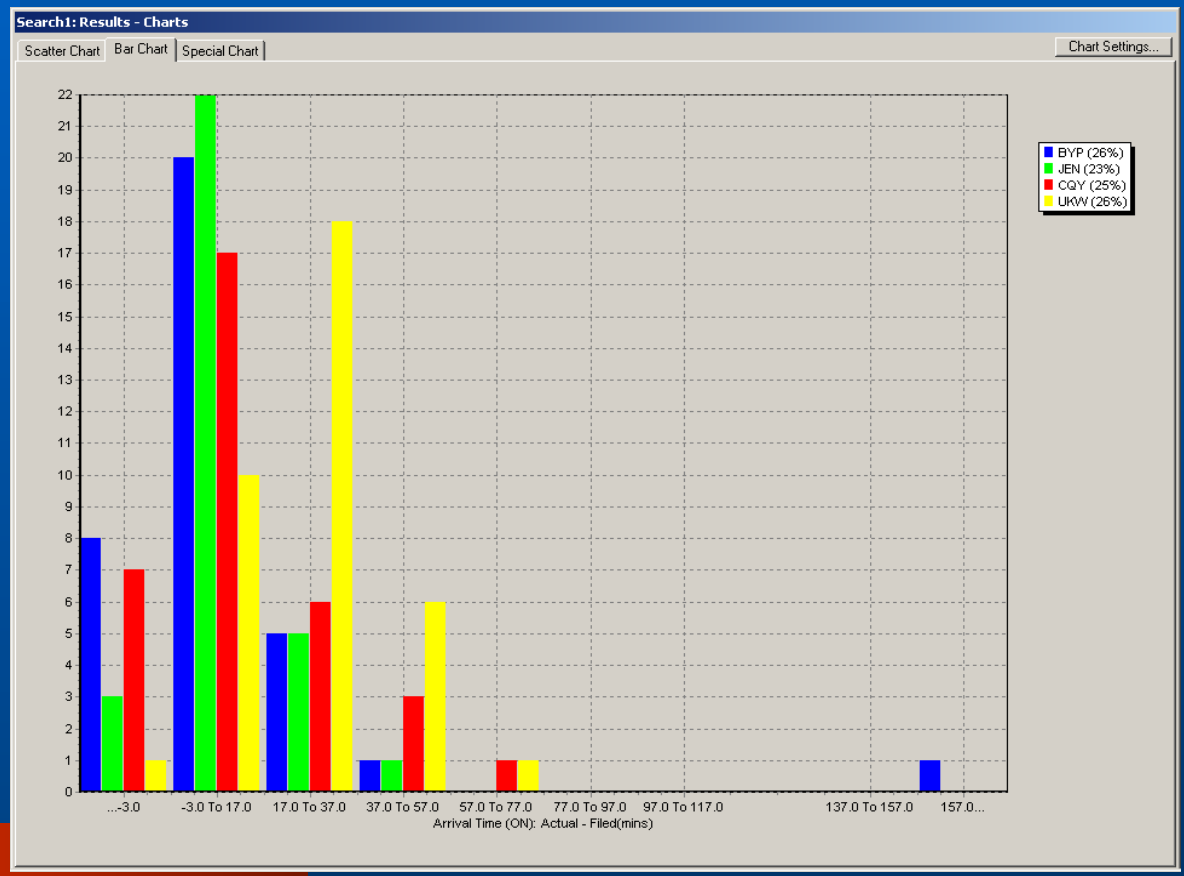
7
8
9
10
11
12
13
14
15
16
17
18
...-14.0
-14.0 To -6.0
-6.0 To 2.0
2.0 To 10.0
10.0 To 18.0
18.0 To 26.0
26.0 To 34.0
34.0 To 42.0
42.0 To 50.0
50.0...
AirTime: Actual - User Filed


Search1: Results - Charts
Scatter Chart
Bar Chart
Special Chart
Chart Settings...
22
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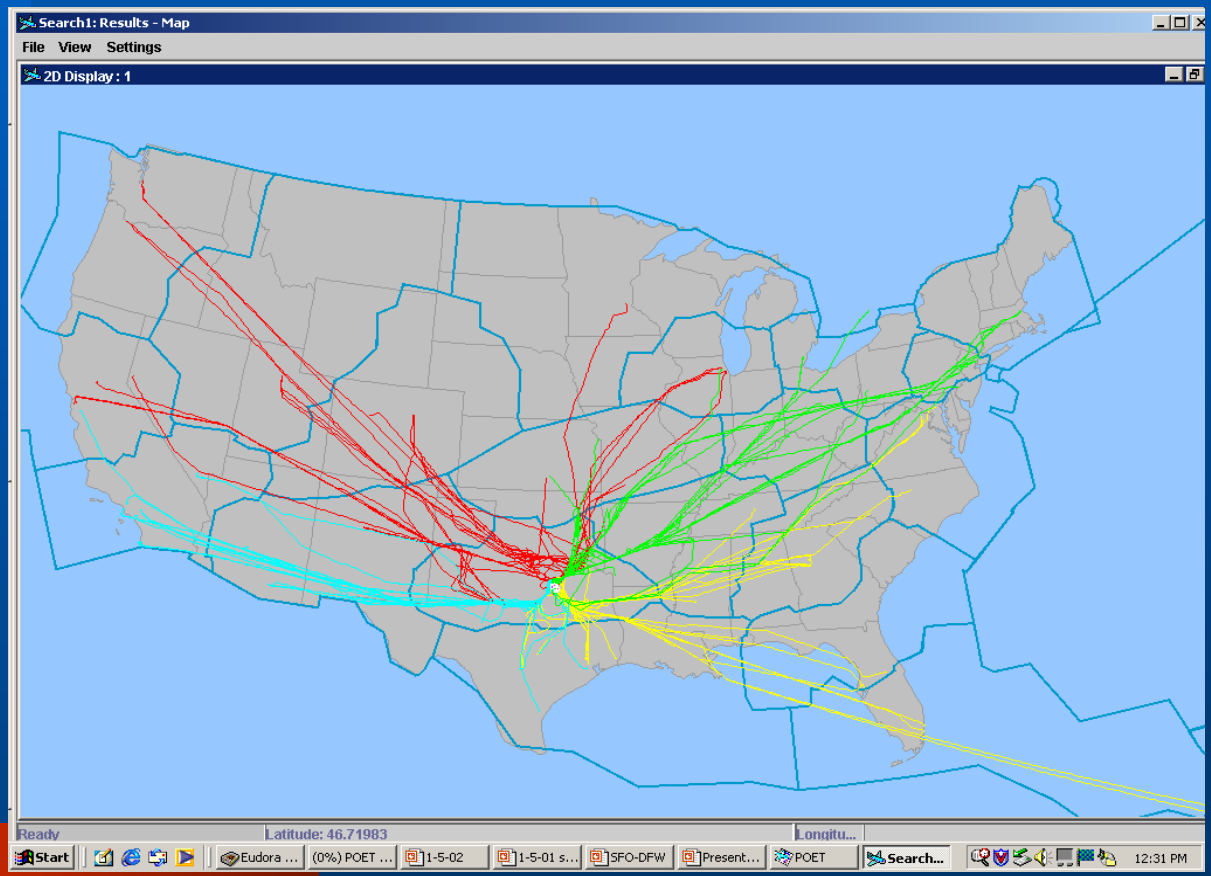
BYP (26%)
JEN (23%)
CQY (25%)
UKW (26%)
...-3.0
-3.0 To 17.0
17.0 To 37.0
37.0 To 57.0
57.0 To 77.0
77.0 To 97.0
97.0 To 117.0
137.0 To 157.0
157.0...
Arrival Time (ON): Actual - Filed(mins)


Search1: Results - Map
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Latitude: 46.71983
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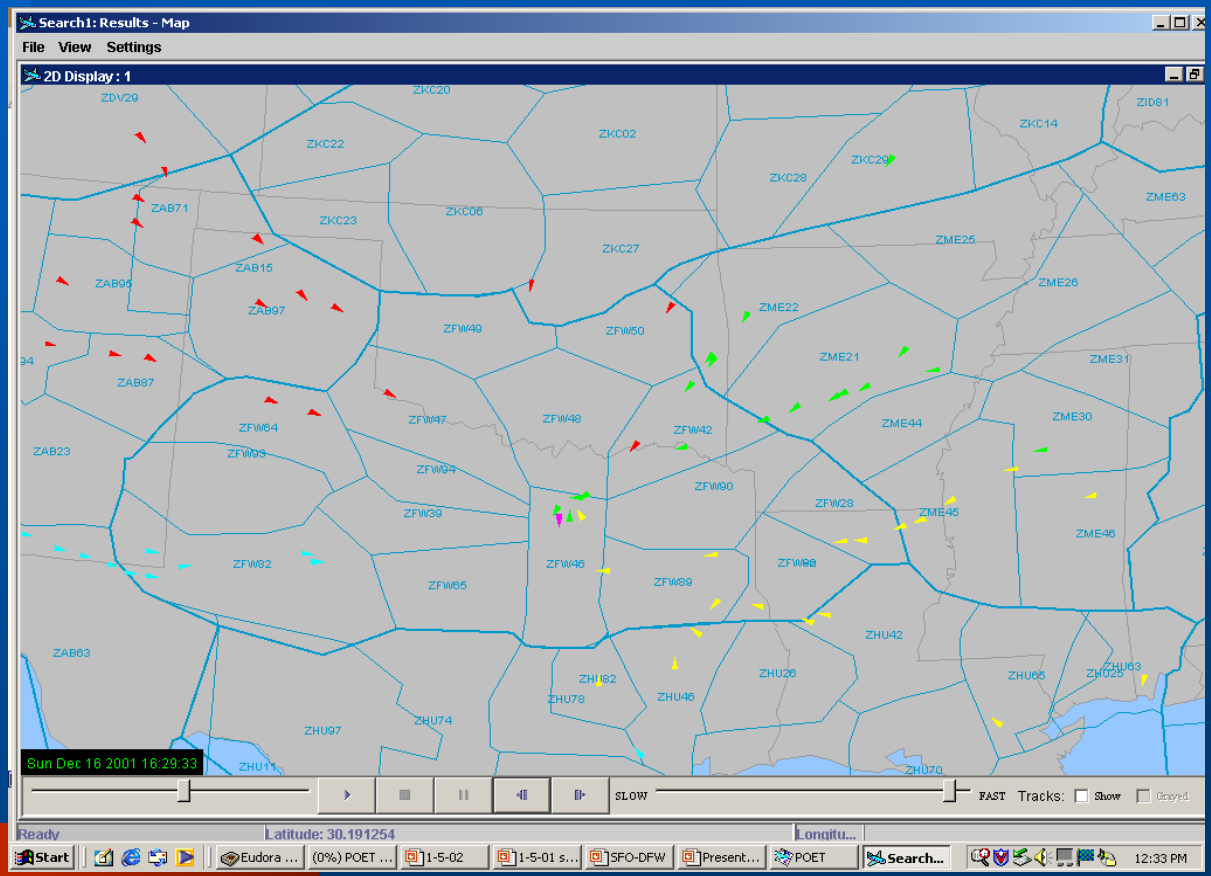
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Sun Dec 16 2001 16:29:33
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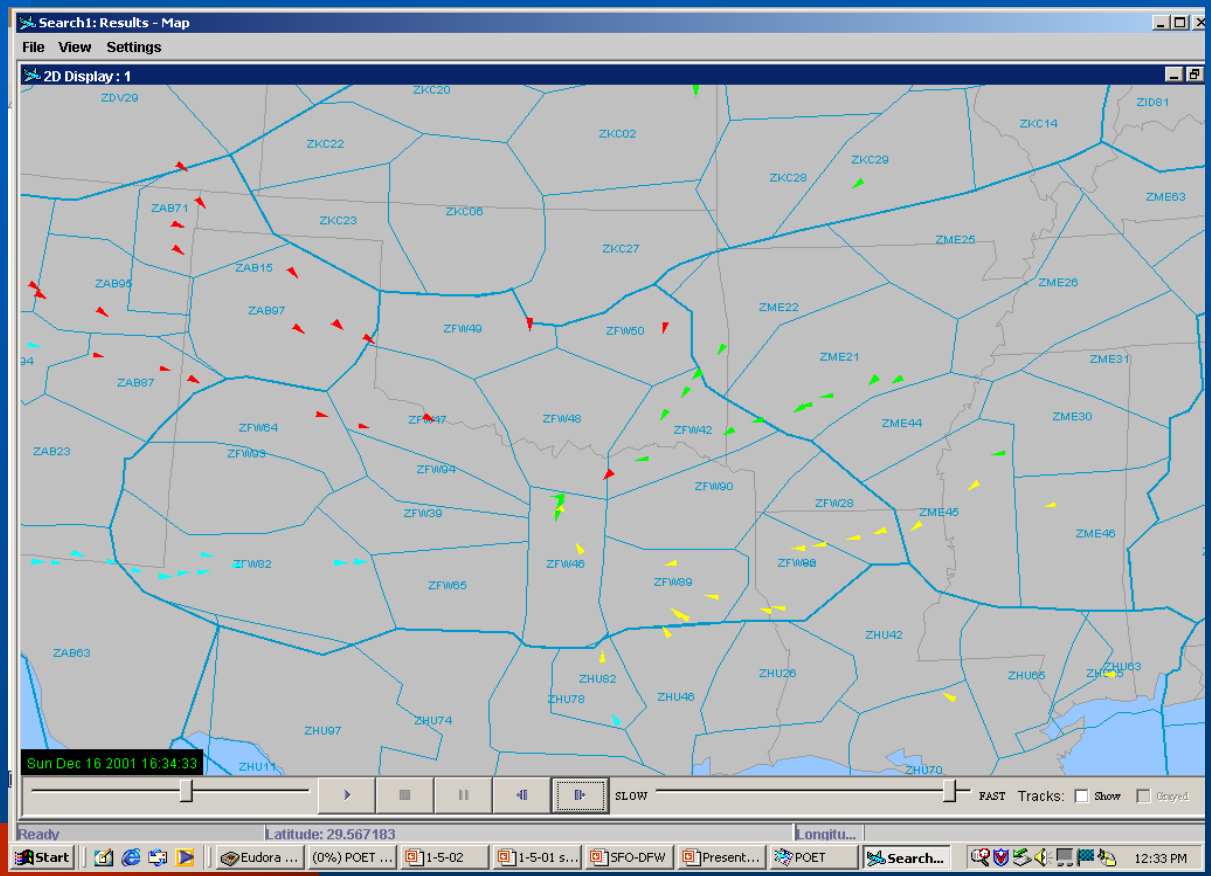
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Sun Dec 16 2001 16:34:33
SLOW
FAST
Tracks:
Show
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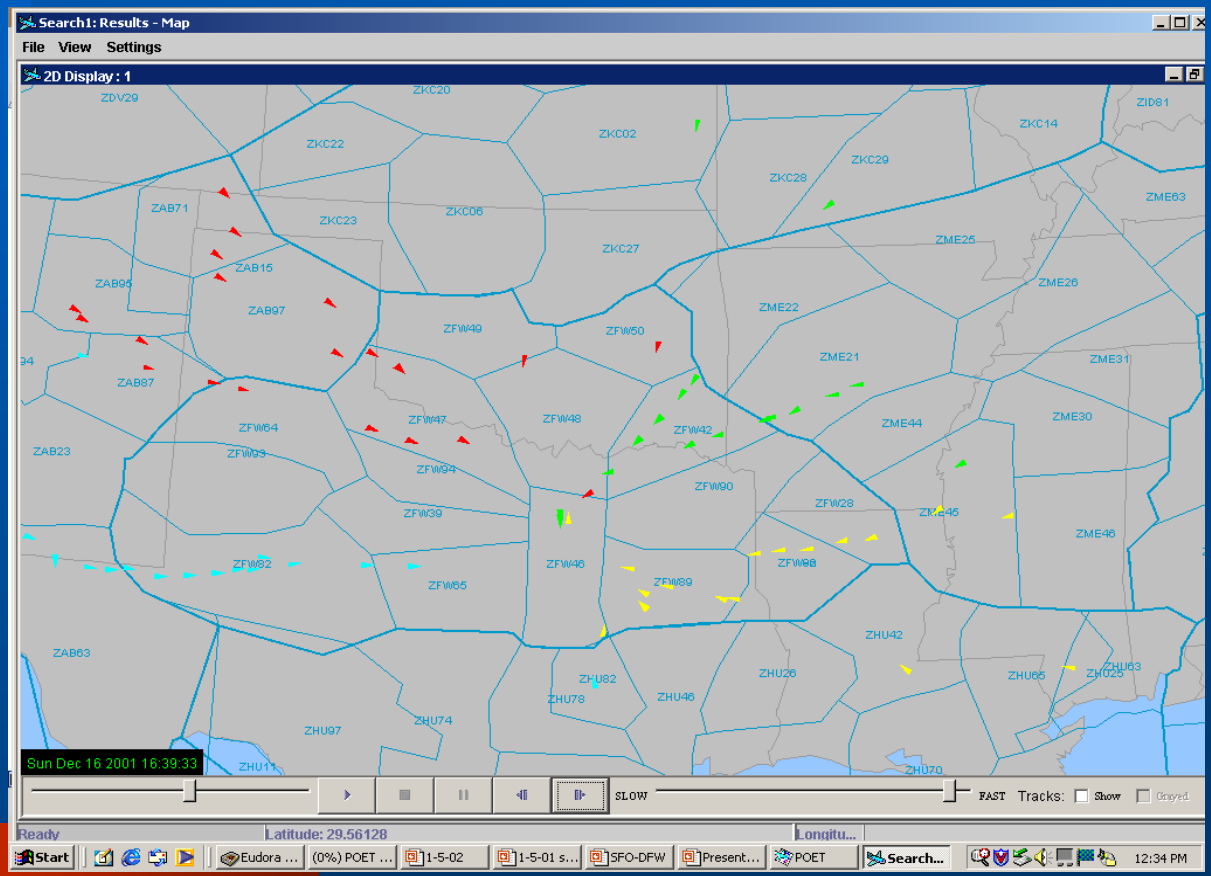
SFO-DFW
Present...
POET
Search...
12:33 PM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Sun Dec 16 2001 16:39:33
SLOW
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Tracks:
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Ready
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(0%) POET ...
1-5-02
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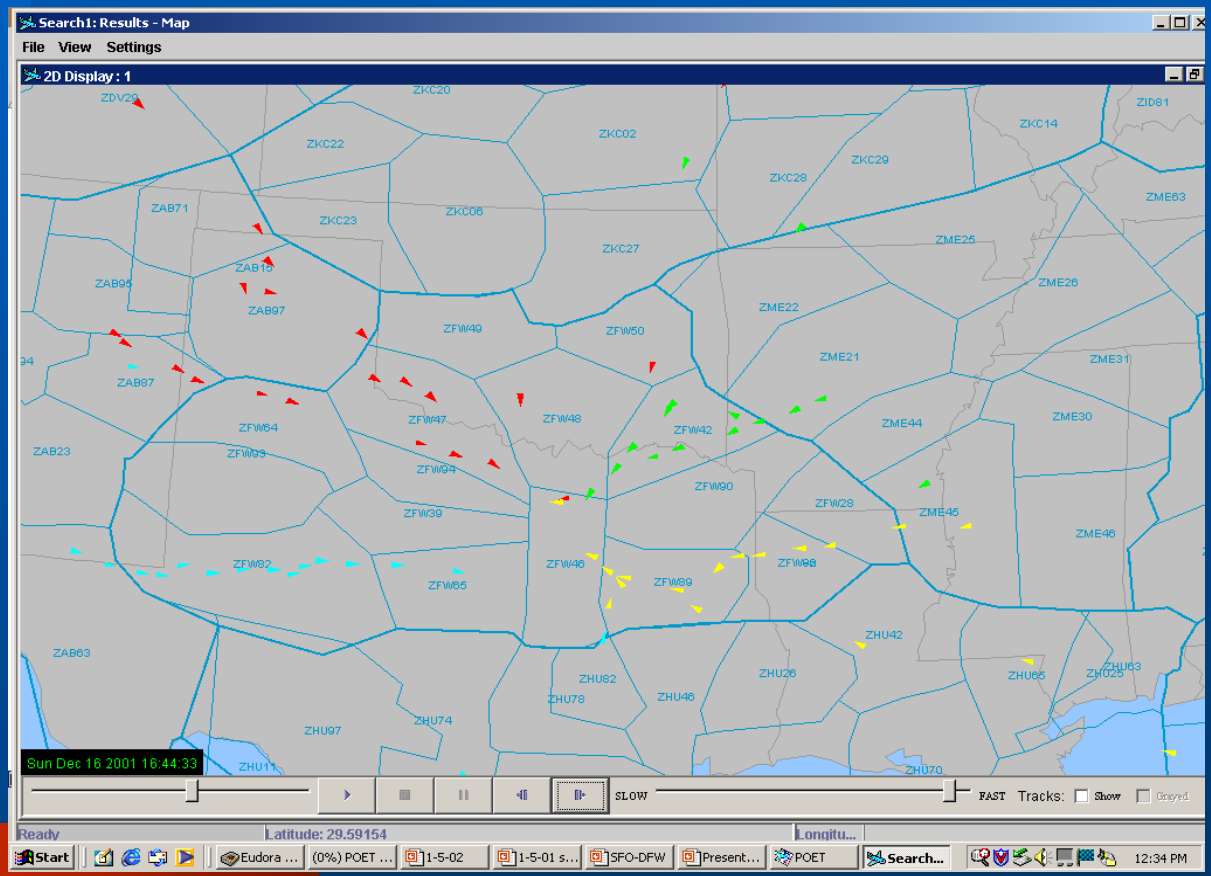
POET
Search...
12:34 PM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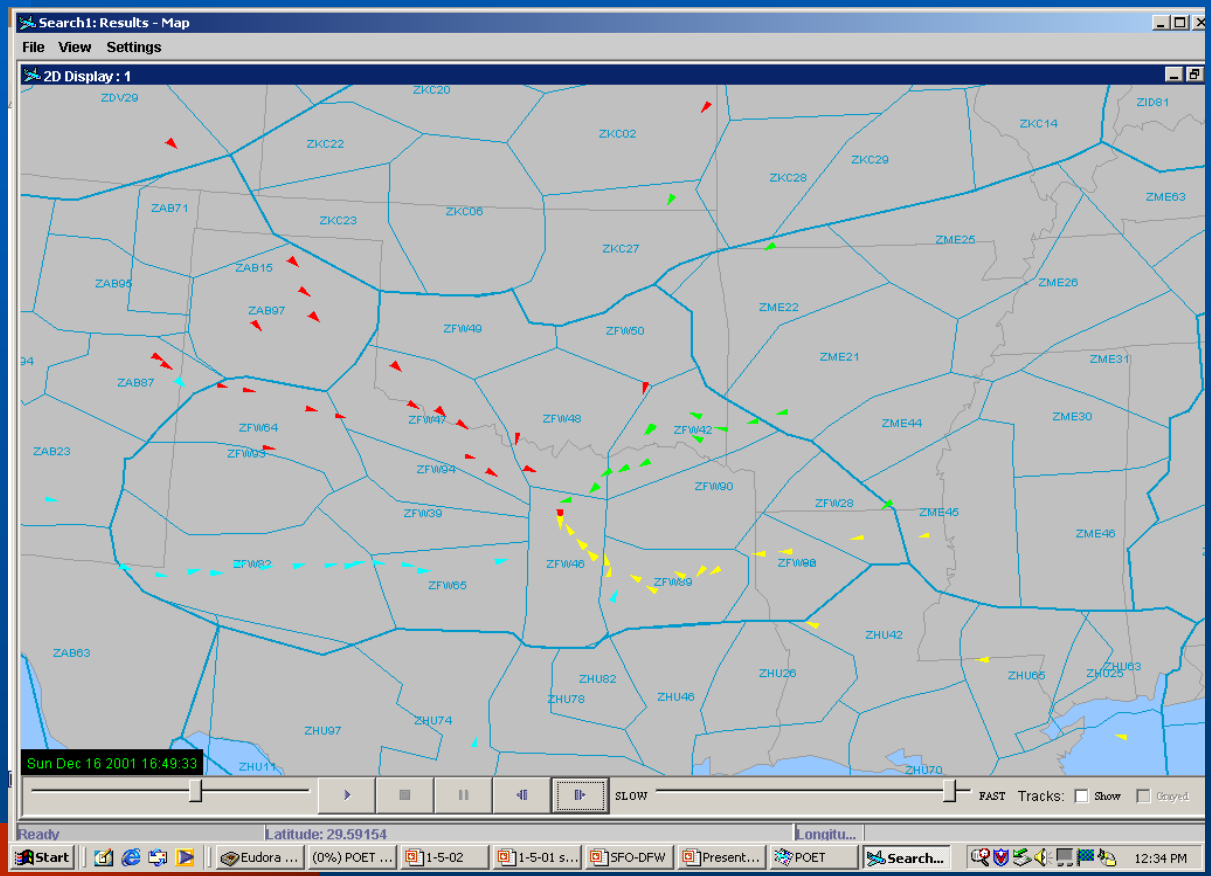
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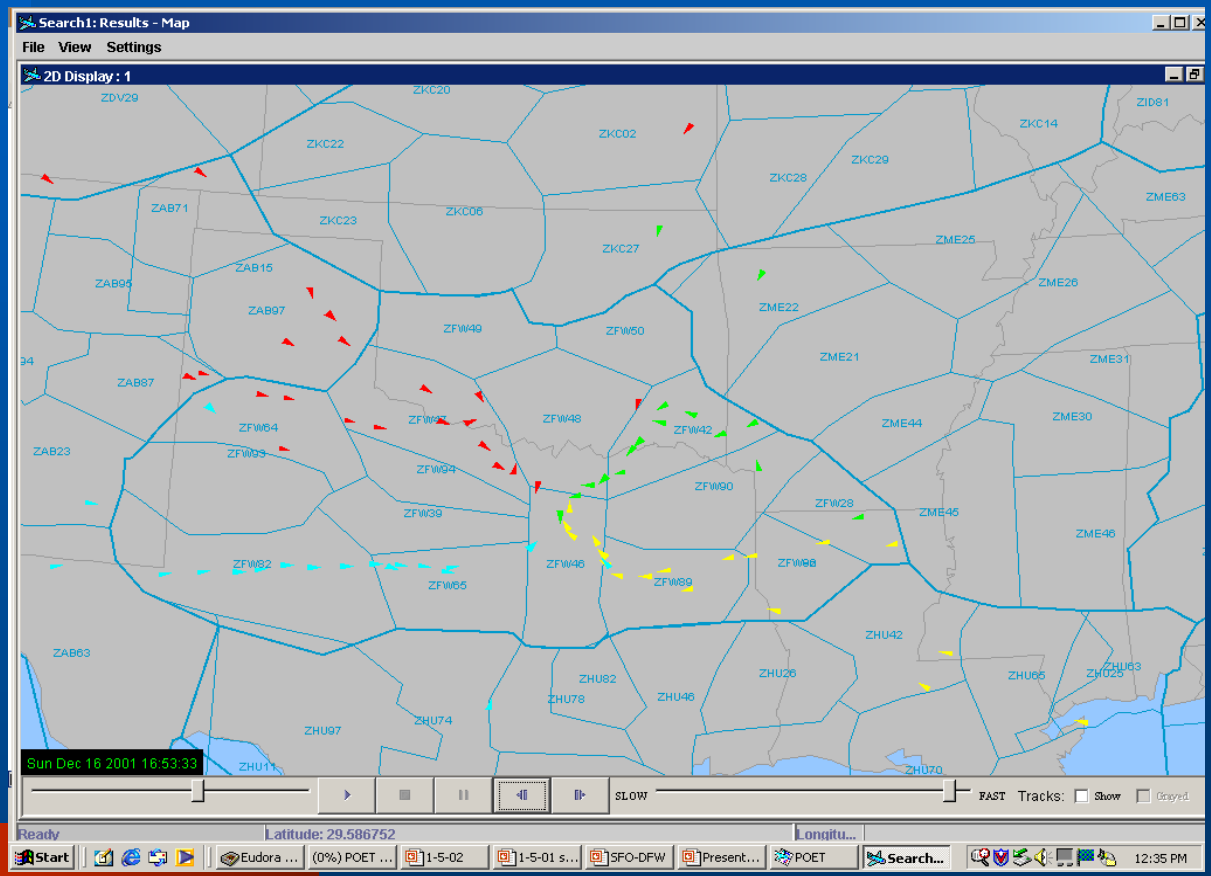
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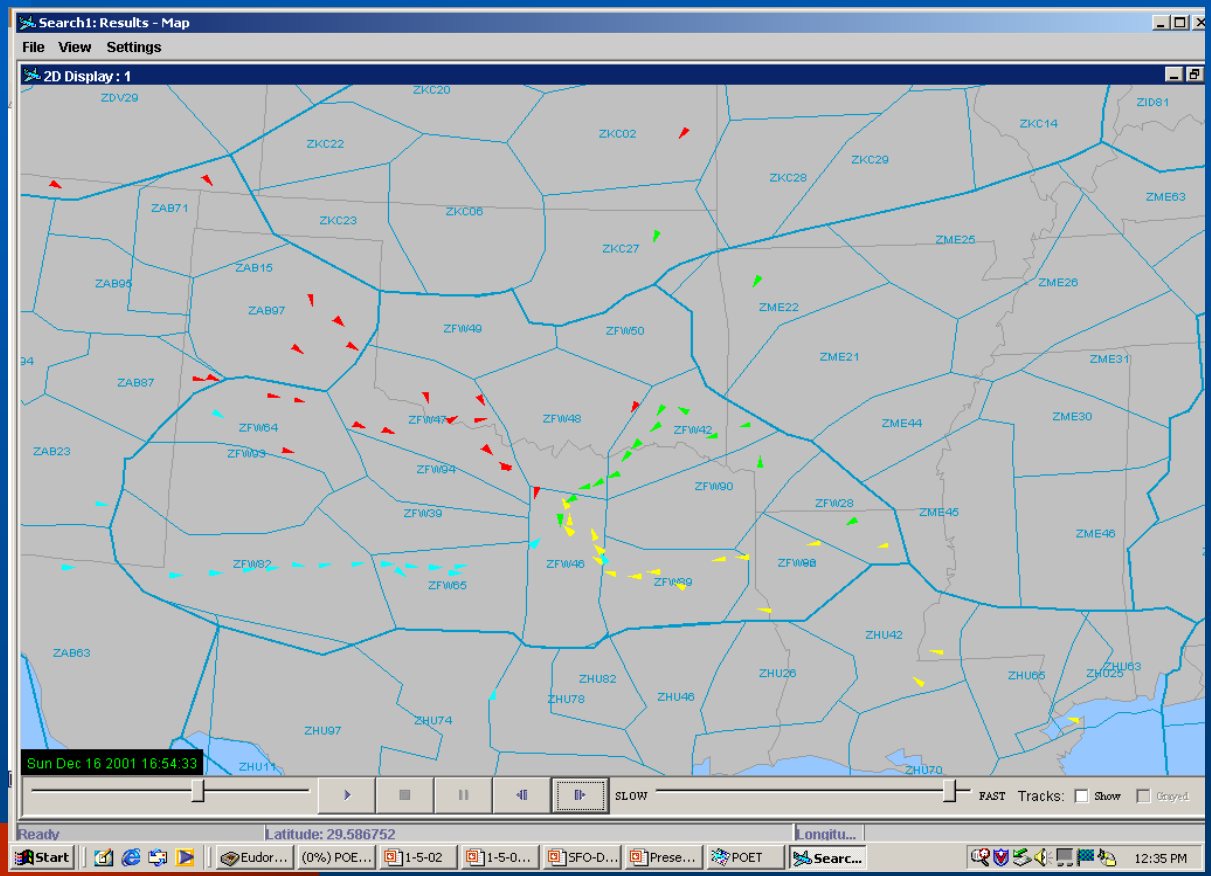
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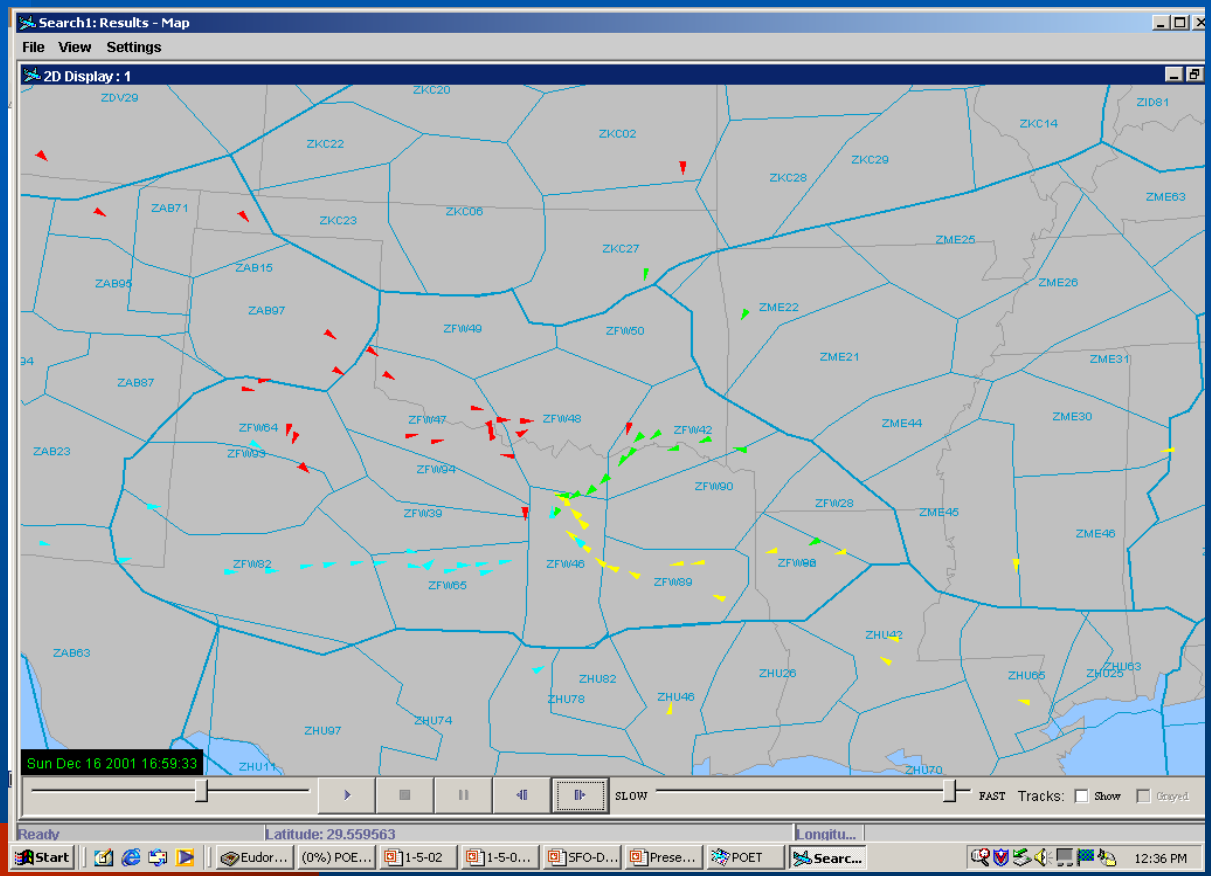
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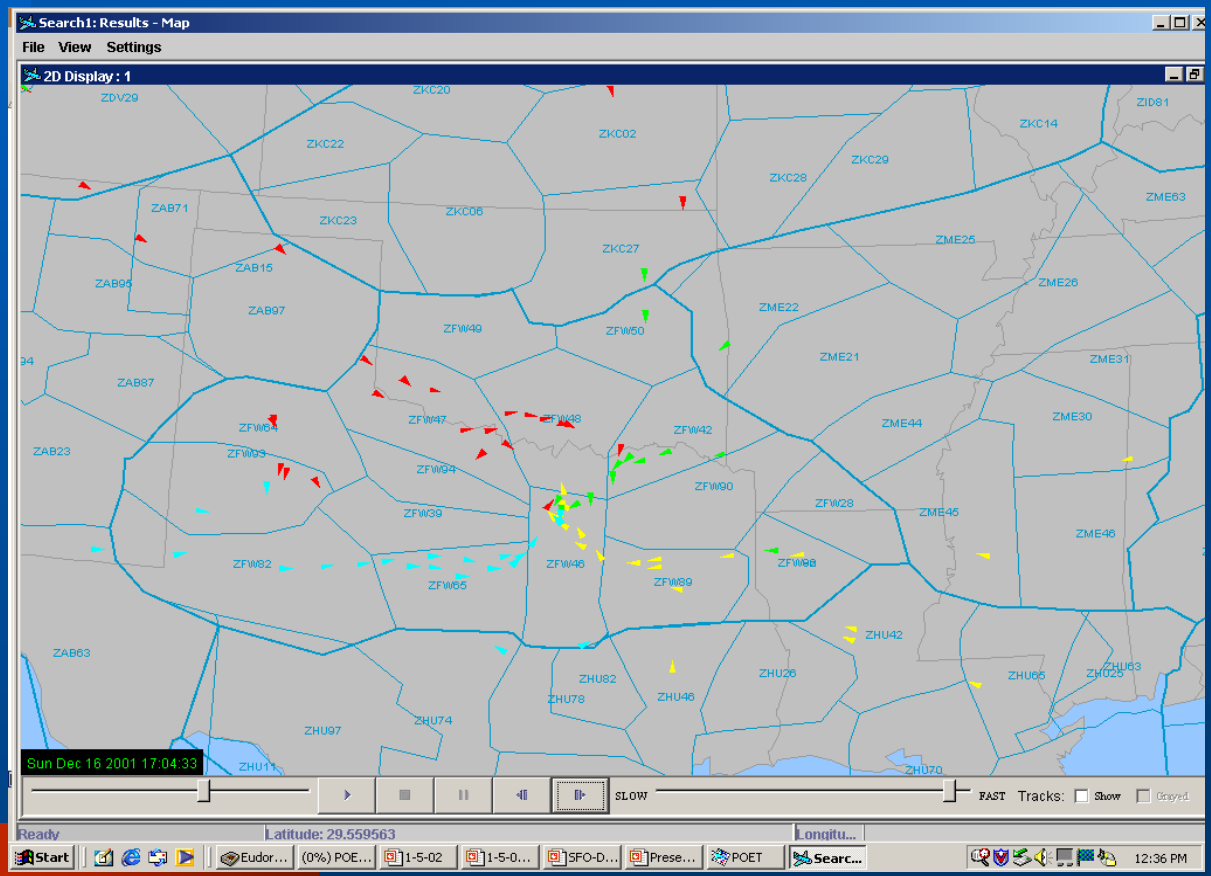
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Sun Dec 16 2001 17:04:33
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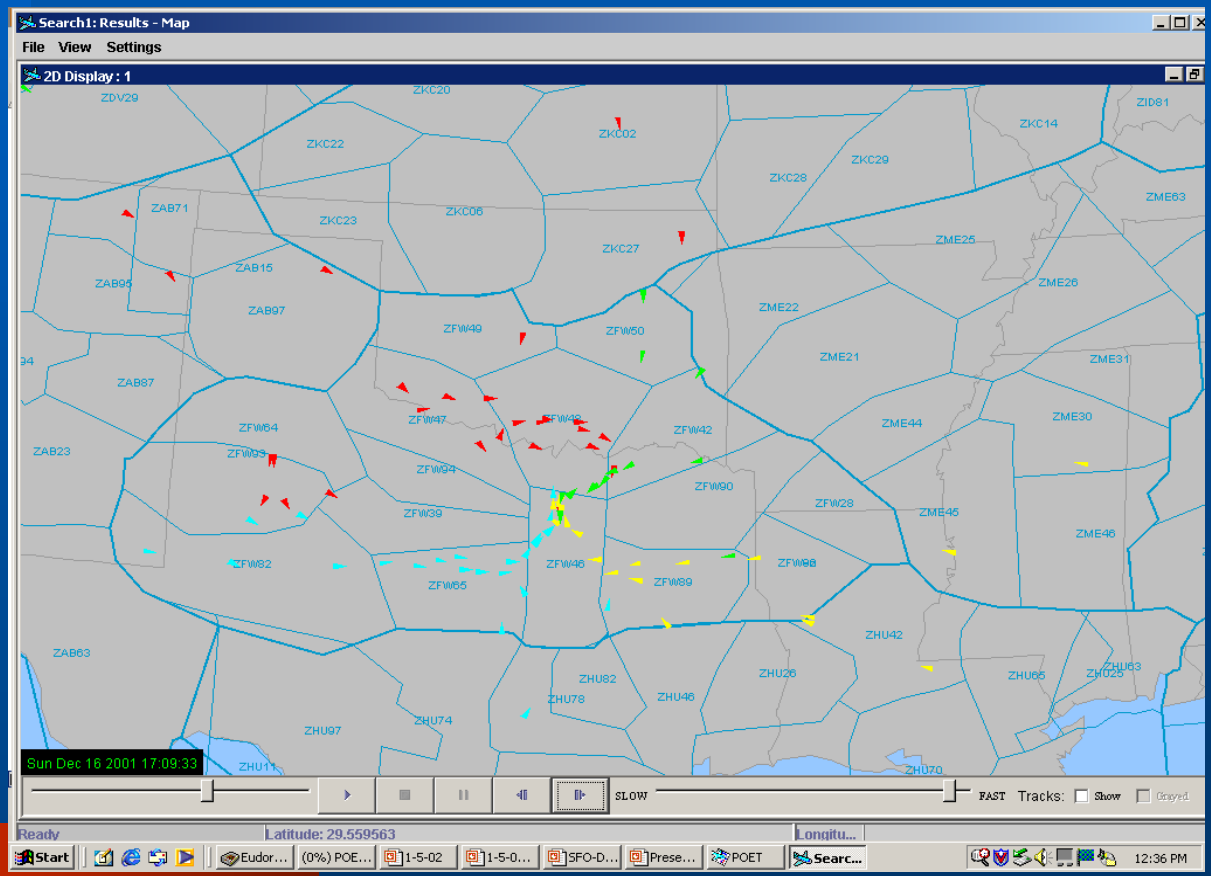
FAST
Tracks:
Show
Ready
Latitude: 29.559563
Start
12:36 PM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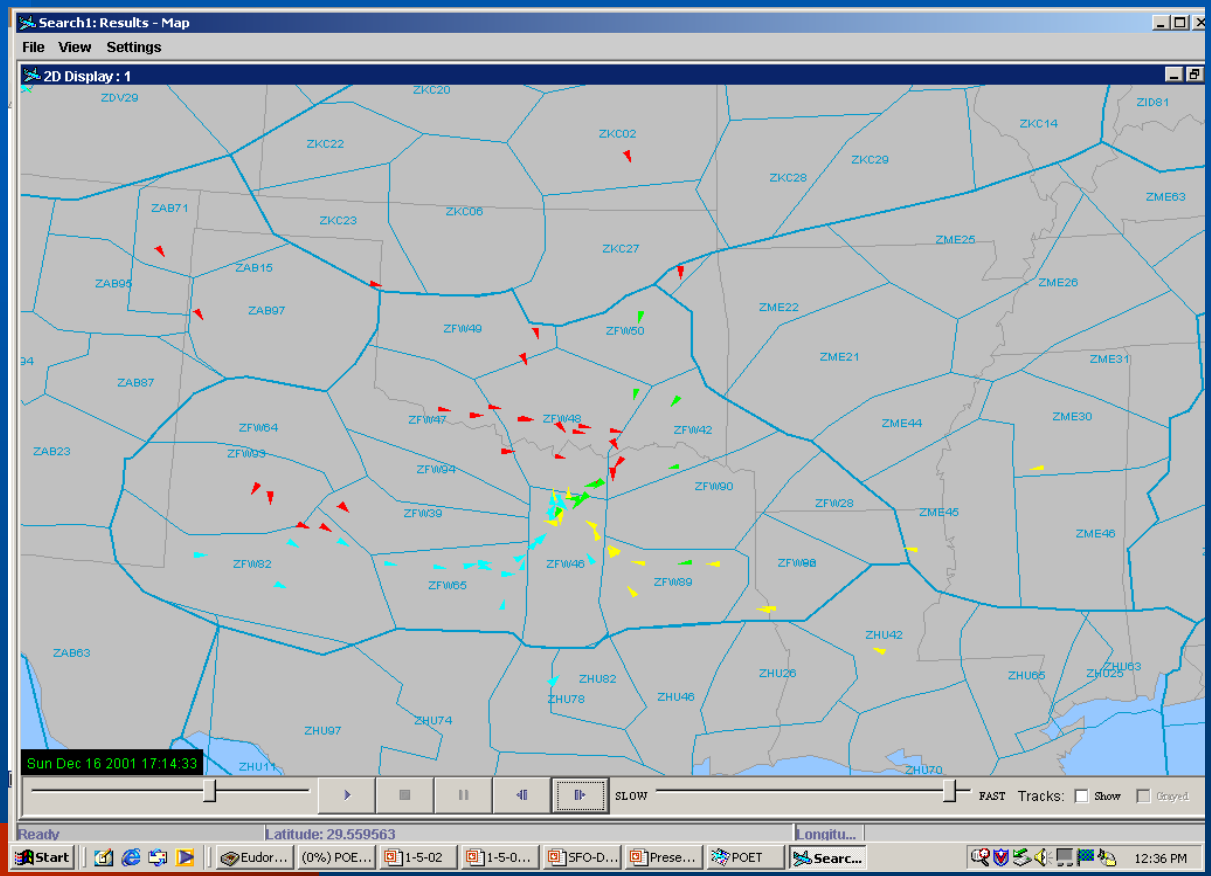
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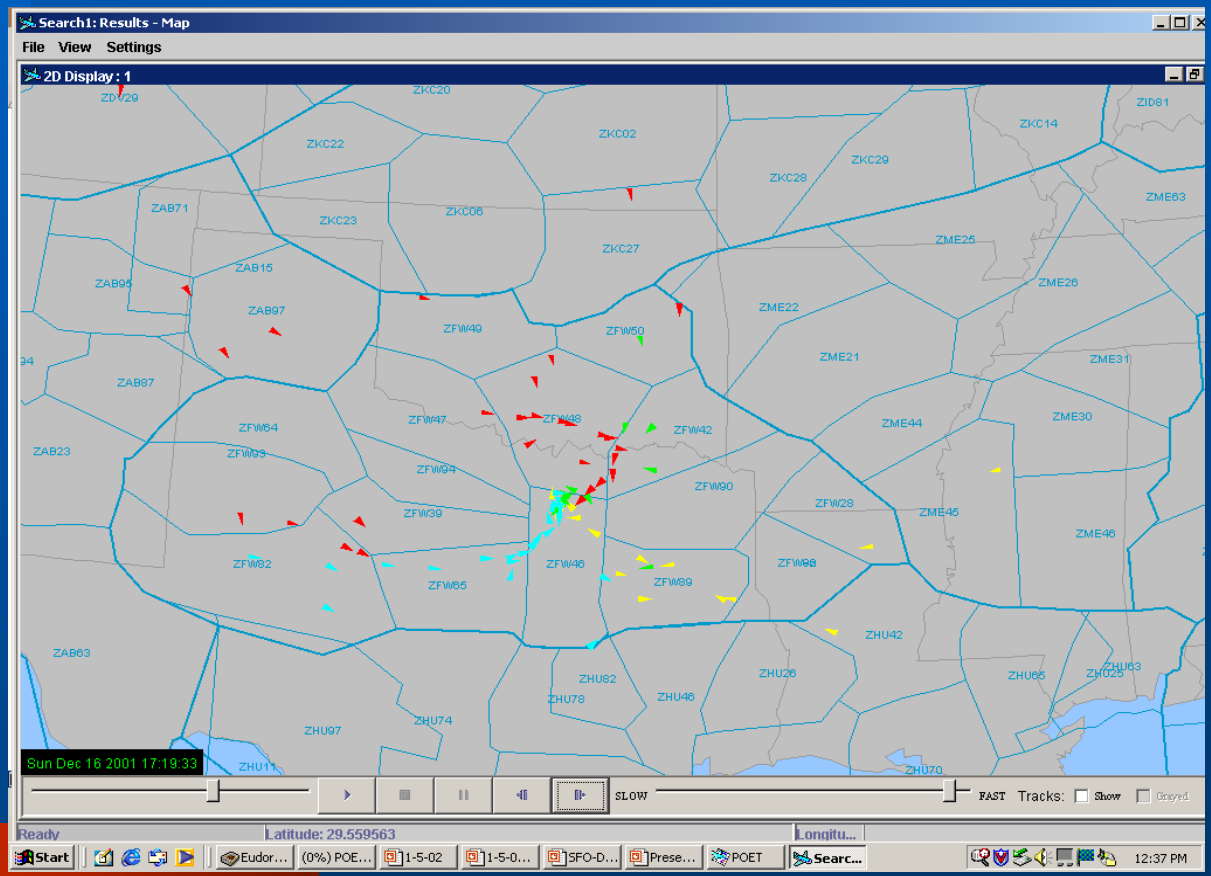
Search1: Results - Map
File View Settings
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ZKC02
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ZHU70
Sun Dec 16 2001 17:19:33
SLOW
FAST
Tracks:
Show
Grayed
Ready
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Longitu...
Start
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1-5-02
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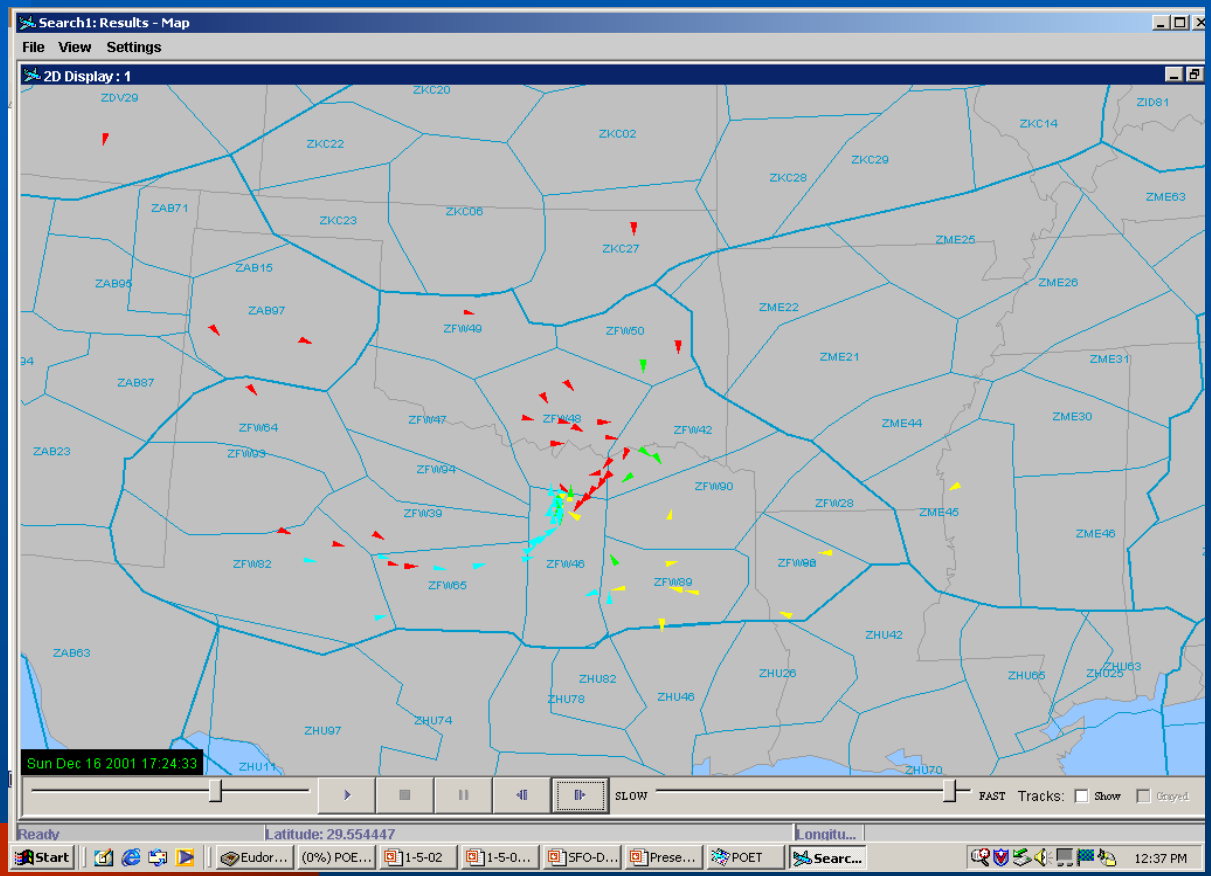
SFO-D...
Prese...
POET
Searc...
12:37 PM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Sun Dec 16 2001 17:24:33
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SLOW
FAST
Tracks:
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Grayed
Ready
Latitude: 29.554447
Longitu...
Start
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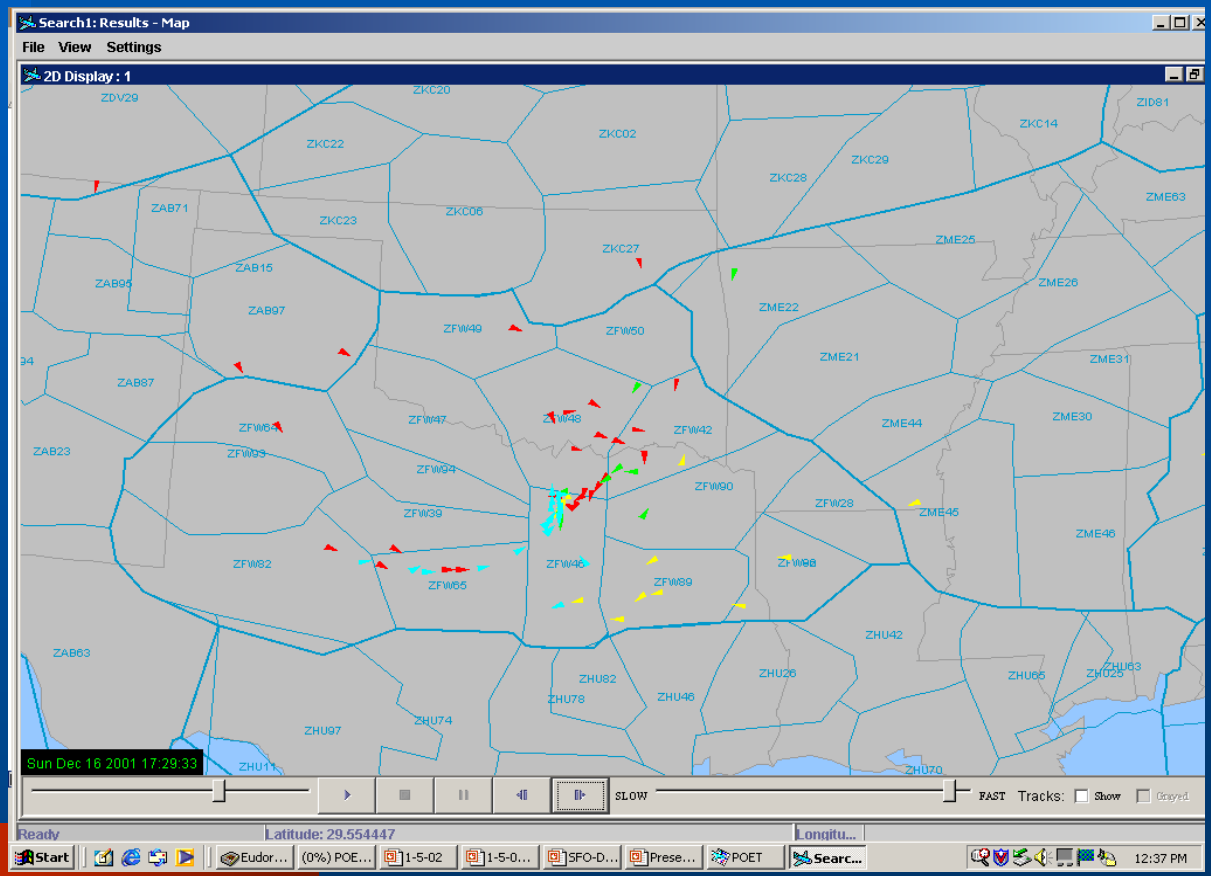
1-5-0...
SFO-D...
Prese...
POET
Searc...
12:37 PM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ZAB23
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FAST
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Show
Ready
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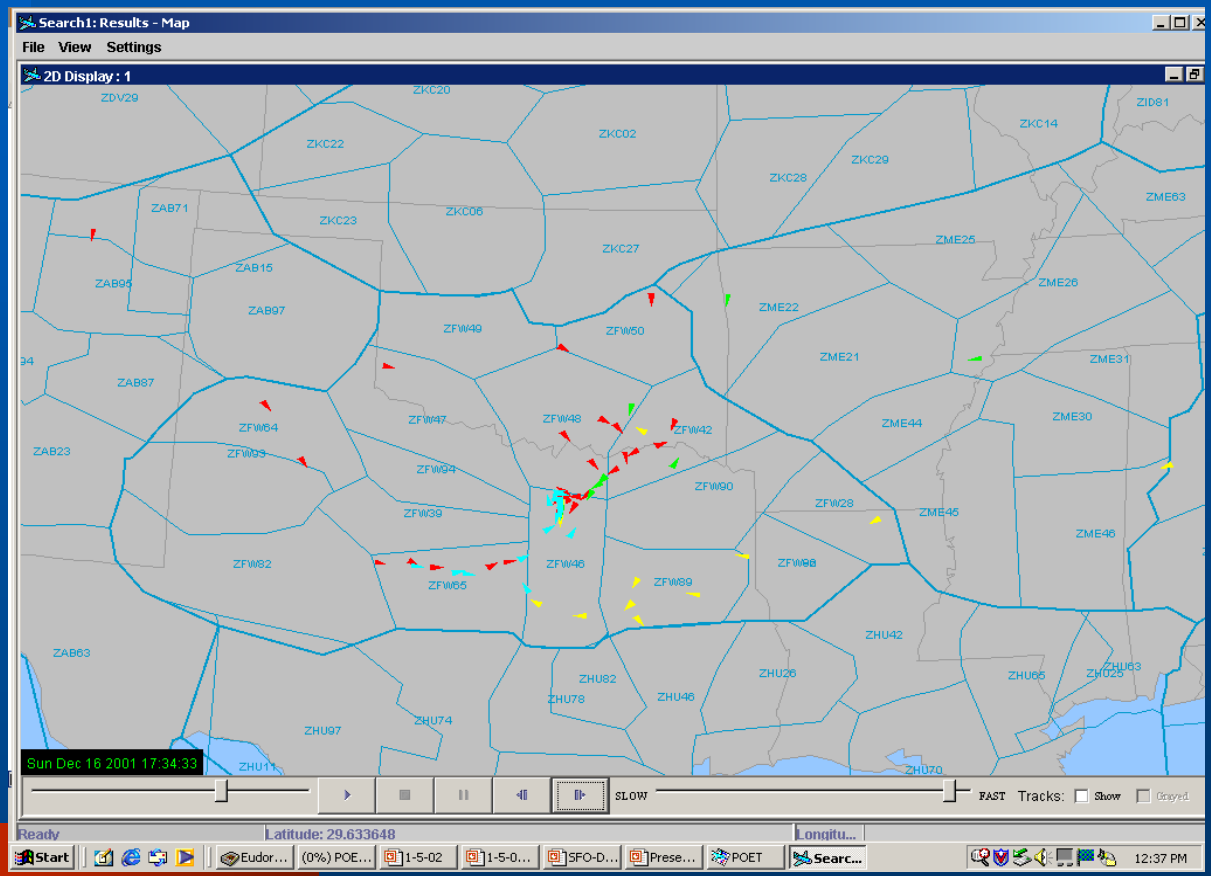
Start
12:37 PM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SLOW
FAST
Tracks:
Show
Ready
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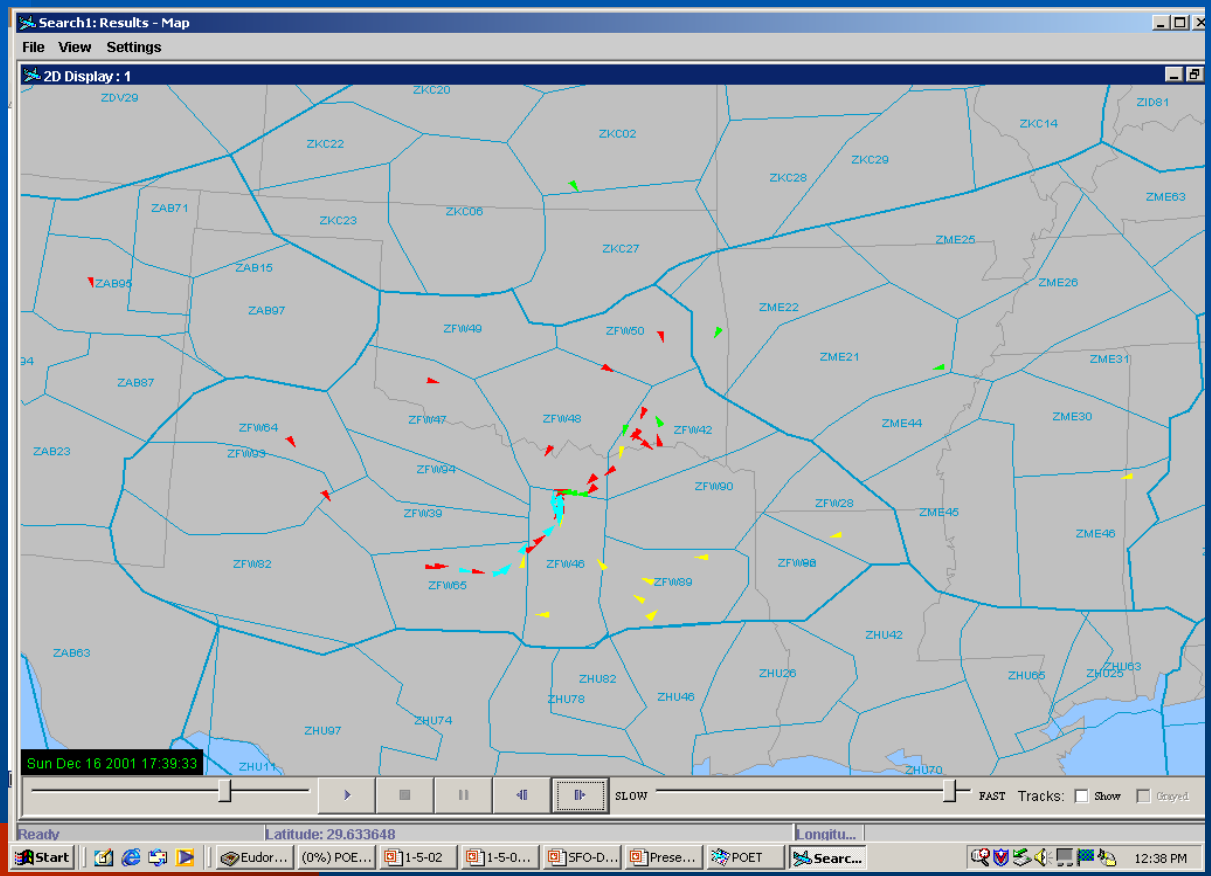
Start
12:37 PM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Sun Dec 16 2001 17:39:33
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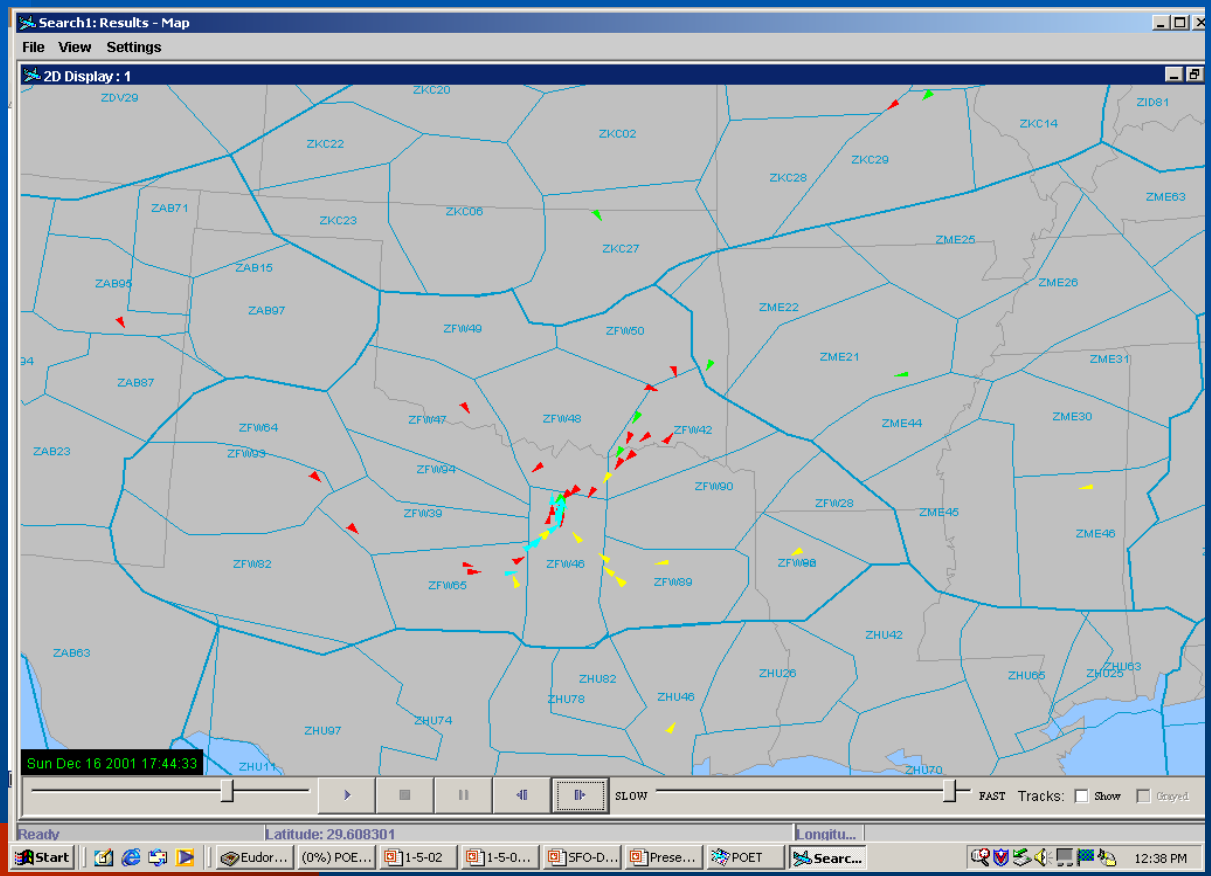
ZHU70
SLOW
FAST
Tracks:
Show
Ready
Latitude: 29.633648
Longitu...
Start
Eudor...
(0%) POE...
1-5-02
1-5-0...
SFO-D...
Prese...
POET
Searc...
12:38 PM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FAST
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Show
Ready
Latitude: 29.608301
Longitu...
Start
Eudor...
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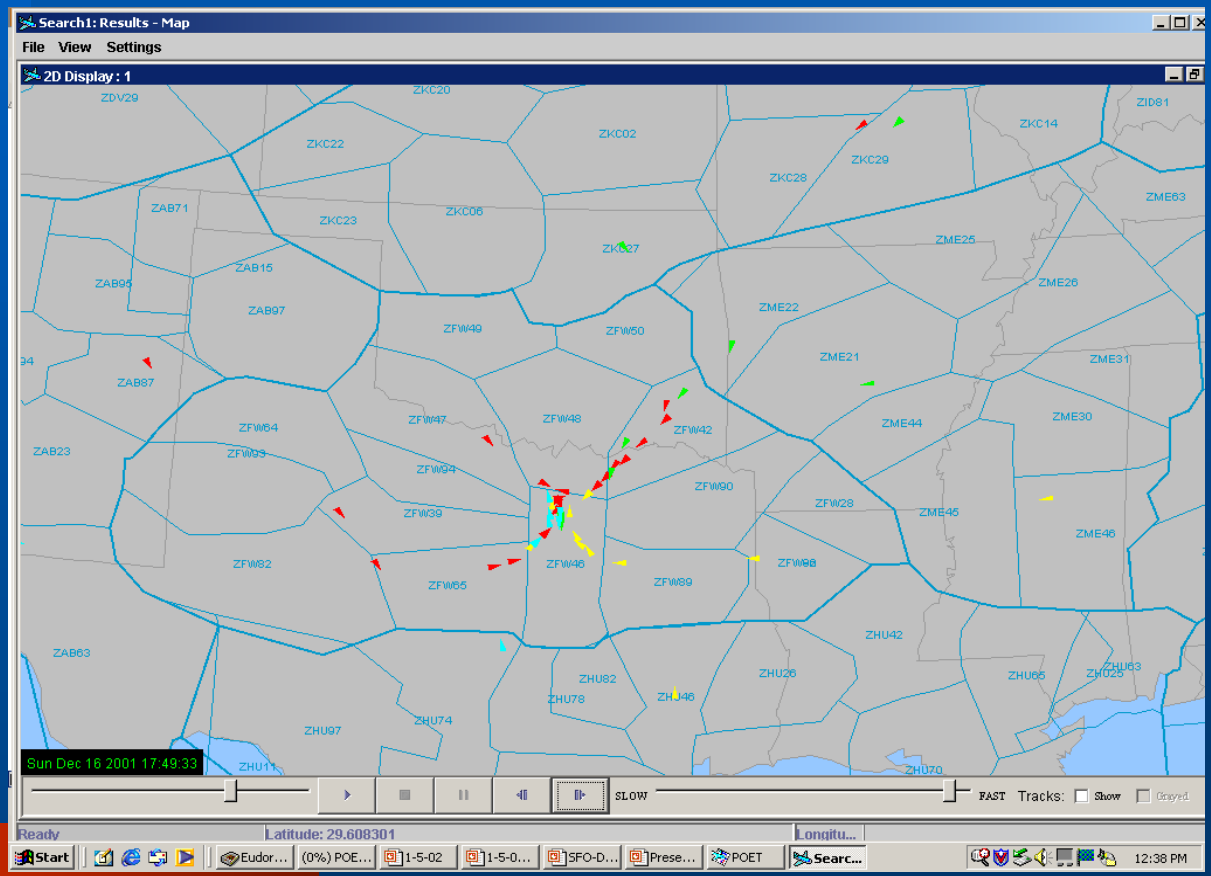
1-5-0...
SFO-D...
Prese...
POET
Searc...
12:38 PM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Sun Dec 16 2001 17:49:33
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SLOW
FAST
Tracks:
Show
Ready
Latitude: 29.608301
Longitu...
Start
Eudor...
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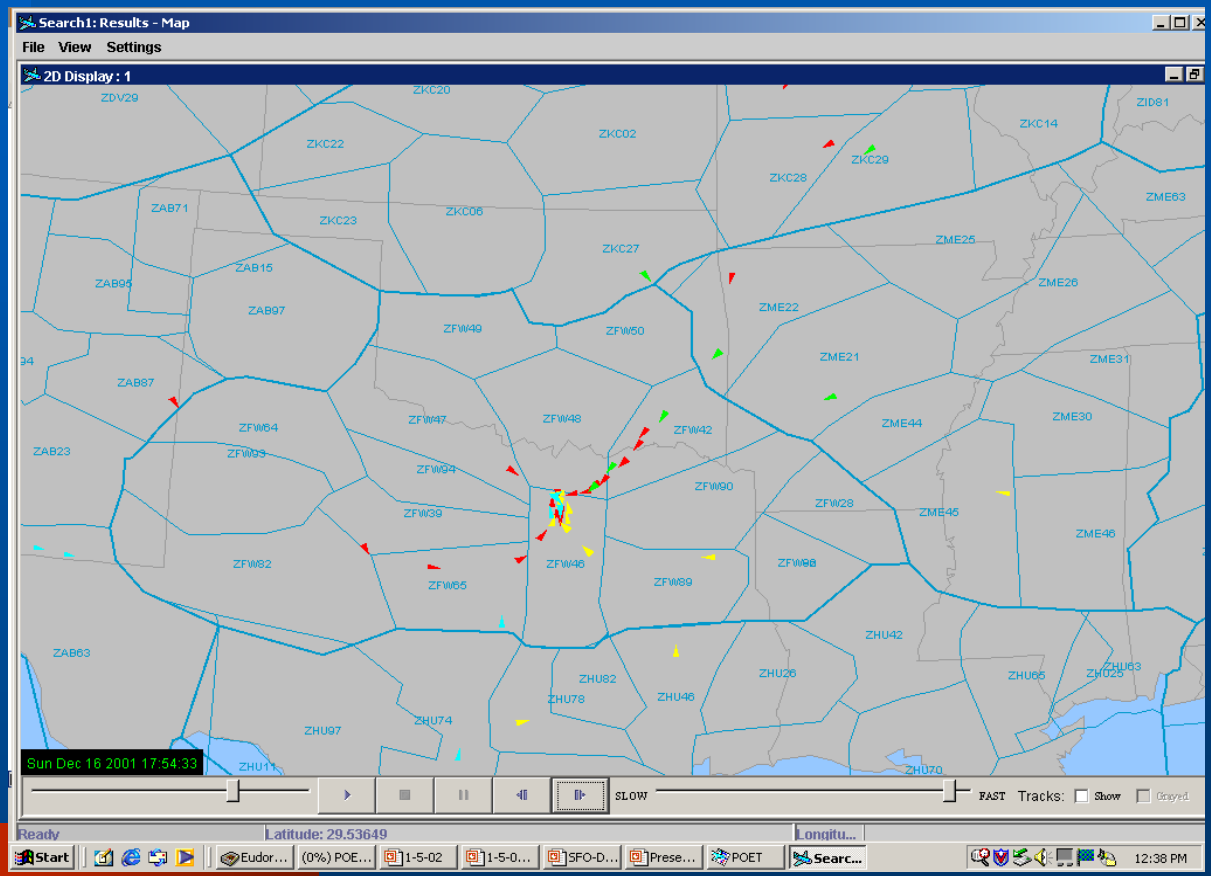
SFO-D...
Prese...
POET
Searc...
12:38 PM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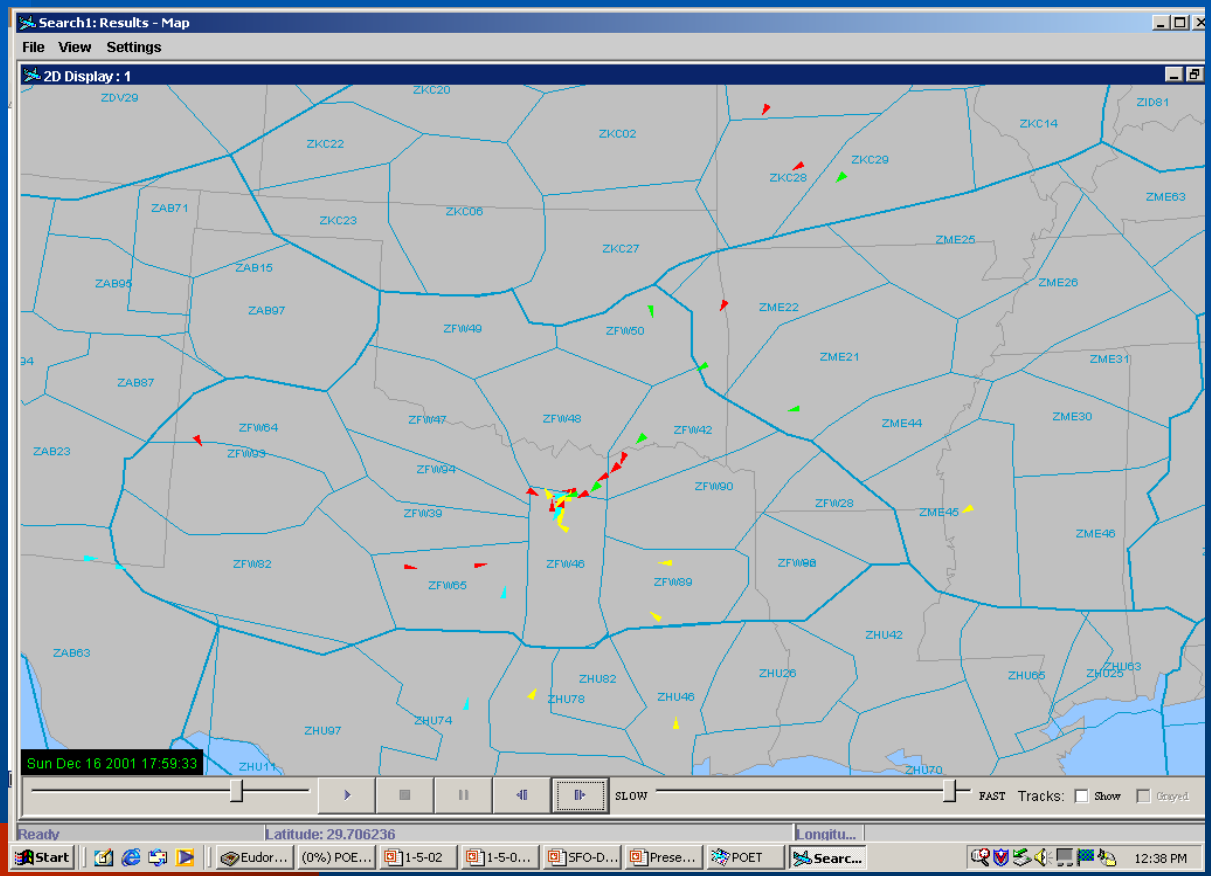
Sun Dec 16 2001 17:54:33
SLOW
FAST
Tracks:
Show
Ready
Latitude: 29.53649
Start
Eudor...
(0%) POE...
1-5-02
1-5-0...
SFO-D...
Prese...
POET
Searc...
12:38 PM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Sun Dec 16 2001 17:59:33
SLOW
FAST
Tracks:
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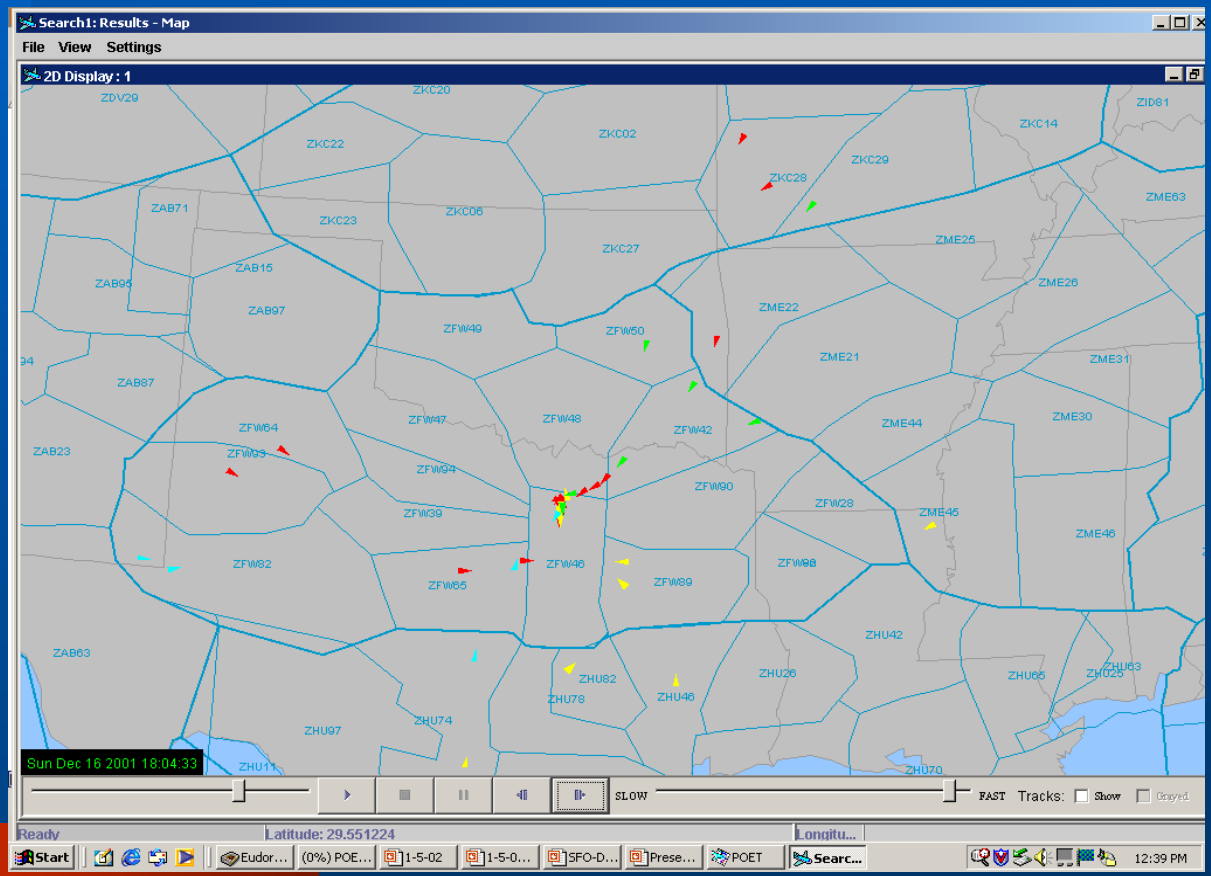
1-5-0...
SFO-D...
Prese...
POET
Searc...
12:38 PM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Sun Dec 16 2001 18:04:33
SLOW
FAST
Tracks:
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Longitu...
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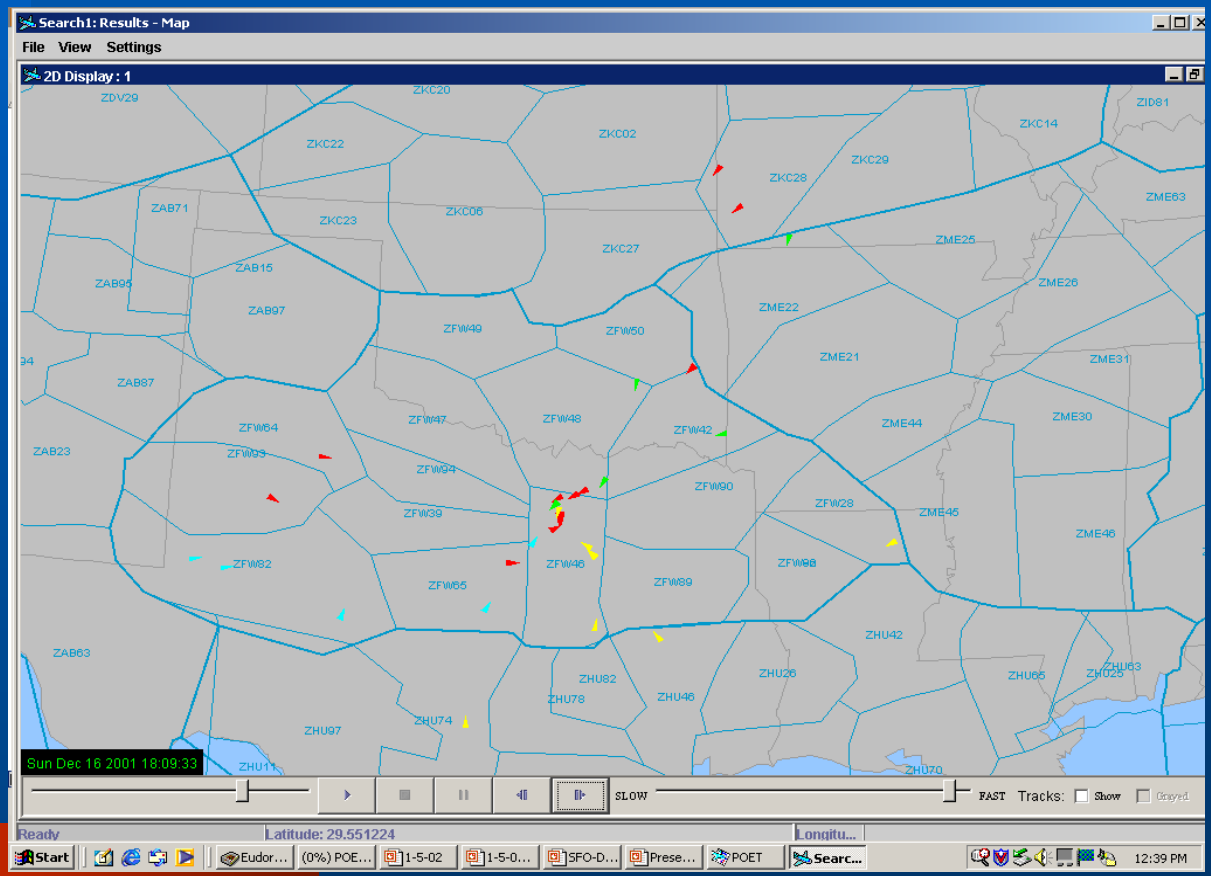
Prese...
POET
Searc...
12:39 PM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Sun Dec 16 2001 18:09:33
ZHU11
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SLOW
FAST
Tracks:
Show
Ready
Latitude: 29.551224
Longitu...
Start
Eudor...
(0%) POE...
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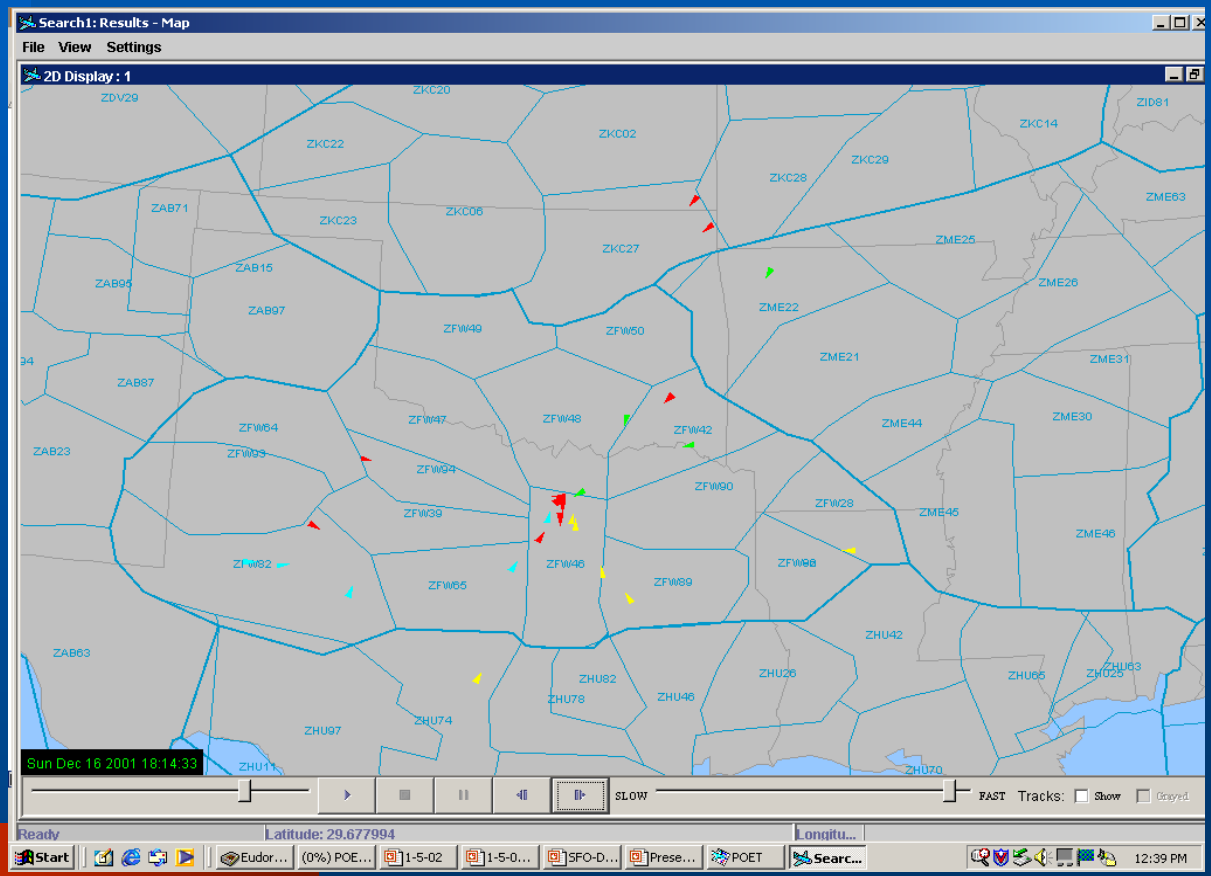
1-5-0...
SFO-D...
Prese...
POET
Searc...
12:39 PM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Sun Dec 16 2001 18:14:33
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SLOW
FAST
Tracks:
Show
Ready
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Longitu...
Start
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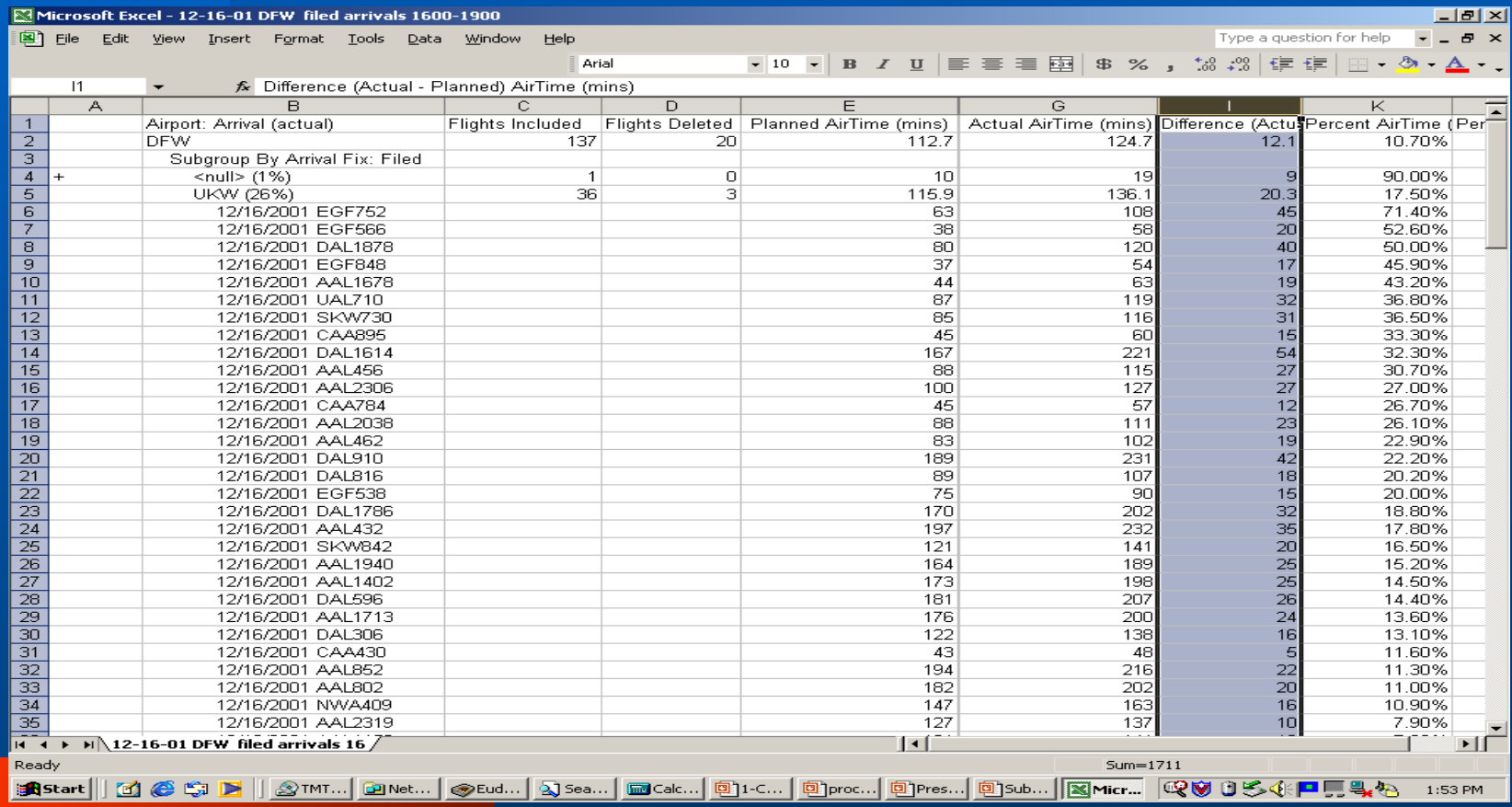
1-5-0...
SFO-D...
Prese...
POET
Searc...
12:39 PM



Microsoft Excel - 12-16-01 DFW filed arrivals 1600-1900

File Edit View Insert Format Tools Data Window Help

Type a question for help

Arial 10

I1 Difference (Actual - Planned) AirTime (mins)

	A	B	C	D	E	G	I	K
1		Airport: Arrival (actual)	Flights Included	Flights Deleted	Planned AirTime (mins)	Actual AirTime (mins)	Difference (Actu	Percent AirTime (
2		DFW	137	20	112.7	124.7	12.1	10.70%
3		Subgroup By Arrival Fix: Filed						
4	+	<null> (1%)	1	0	10	19	9	90.00%
5		UKW (26%)	36	3	115.9	136.1	20.3	17.50%
6		12/16/2001 EGF752			63	108	45	71.40%
7		12/16/2001 EGF566			38	58	20	52.60%
8		12/16/2001 DAL1878			80	120	40	50.00%
9		12/16/2001 EGF848			37	54	17	45.90%
10		12/16/2001 AAL1678			44	63	19	43.20%
11		12/16/2001 UAL710			87	119	32	36.80%
12		12/16/2001 SKW730			85	116	31	36.50%
13		12/16/2001 CAA895			45	60	15	33.30%
14		12/16/2001 DAL1614			167	221	54	32.30%
15		12/16/2001 AAL456			88	115	27	30.70%
16		12/16/2001 AAL2306			100	127	27	27.00%
17		12/16/2001 CAA784			45	57	12	26.70%
18		12/16/2001 AAL2038			88	111	23	26.10%
19		12/16/2001 AAL462			83	102	19	22.90%
20		12/16/2001 DAL910			189	231	42	22.20%
21		12/16/2001 DAL816			89	107	18	20.20%
22		12/16/2001 EGF538			75	90	15	20.00%
23		12/16/2001 DAL1786			170	202	32	18.80%
24		12/16/2001 AAL432			197	232	35	17.80%
25		12/16/2001 SKW842			121	141	20	16.50%
26		12/16/2001 AAL1940			164	189	25	15.20%
27		12/16/2001 AAL1402			173	198	25	14.50%
28		12/16/2001 DAL596			181	207	26	14.40%
29		12/16/2001 AAL1713			176	200	24	13.60%
30		12/16/2001 DAL306			122	138	16	13.10%
31		12/16/2001 CAA430			43	48	5	11.60%
32		12/16/2001 AAL852			194	216	22	11.30%
33		12/16/2001 AAL802			182	202	20	11.00%
34		12/16/2001 NWA409			147	163	16	10.90%
35		12/16/2001 AAL2319			127	137	10	7.90%

12-16-01 DFW filed arrivals 16

Ready Sum=1711

Start TMT... Net... Eud... Sea... Calc... 1-C... proc... Pres... Sub... Micr... 1:53 PM

AOC Scenario - Participants

Participants in the real-world:

- ATCSCC, ARTCCs, DFW TRACON, DFW and DAL Towers
  - traffic managers
  - controllers
- pilots
- AOCs
  - with DFW or DAL arrivals
  - with DFW or DAL departures
  - with ZFW overflights

AOC Scenario - Participants

Participants in the real-world:

- **General aviation**
- **DOD**

AOC Scenario - Sequence

- detect event
- inform participants
- institute tactical responses
  - consider alternative system designs
- plan strategic responses
  - consider alternative system designs
- implement strategic responses
- institute tactical adjustments